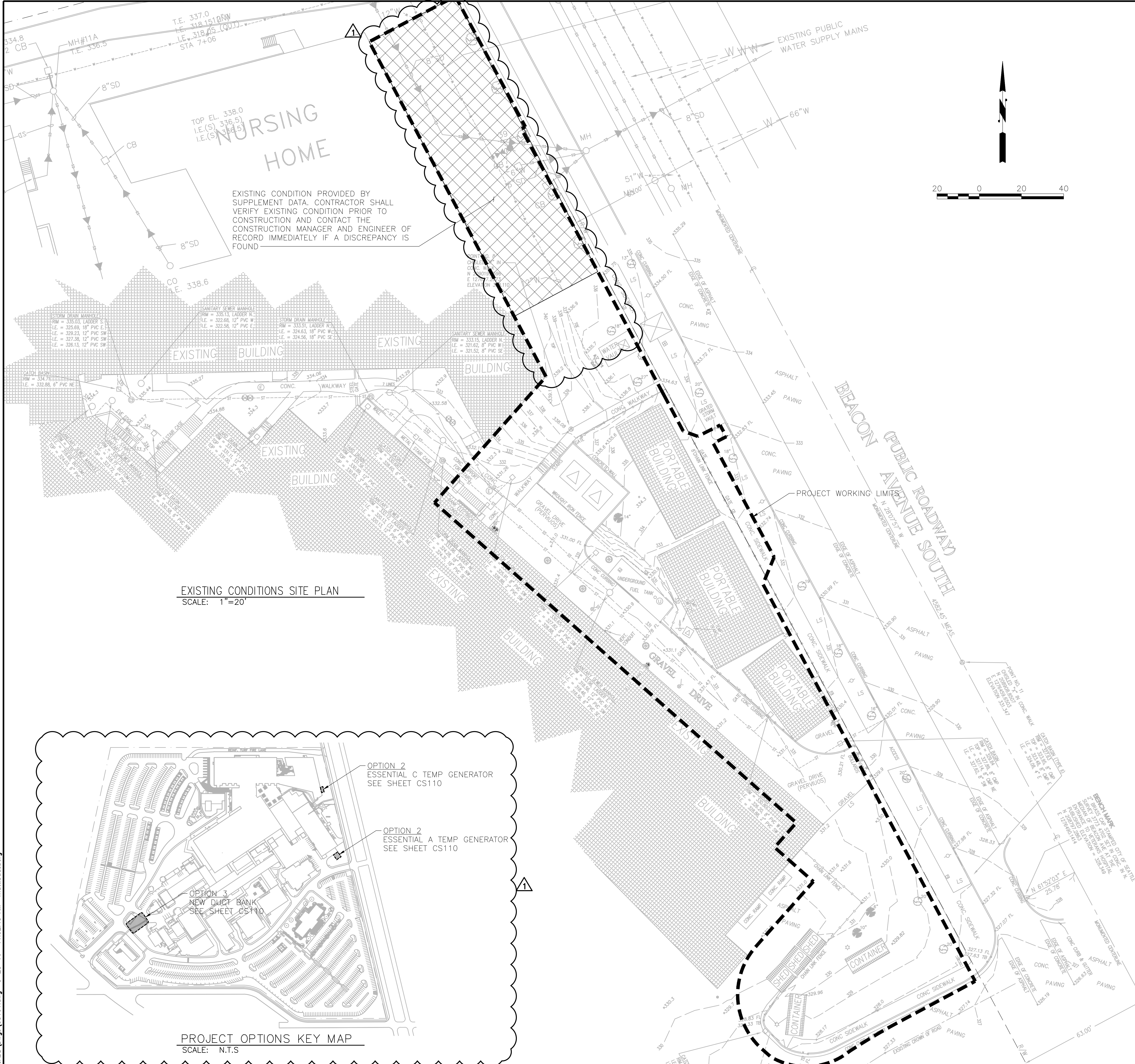
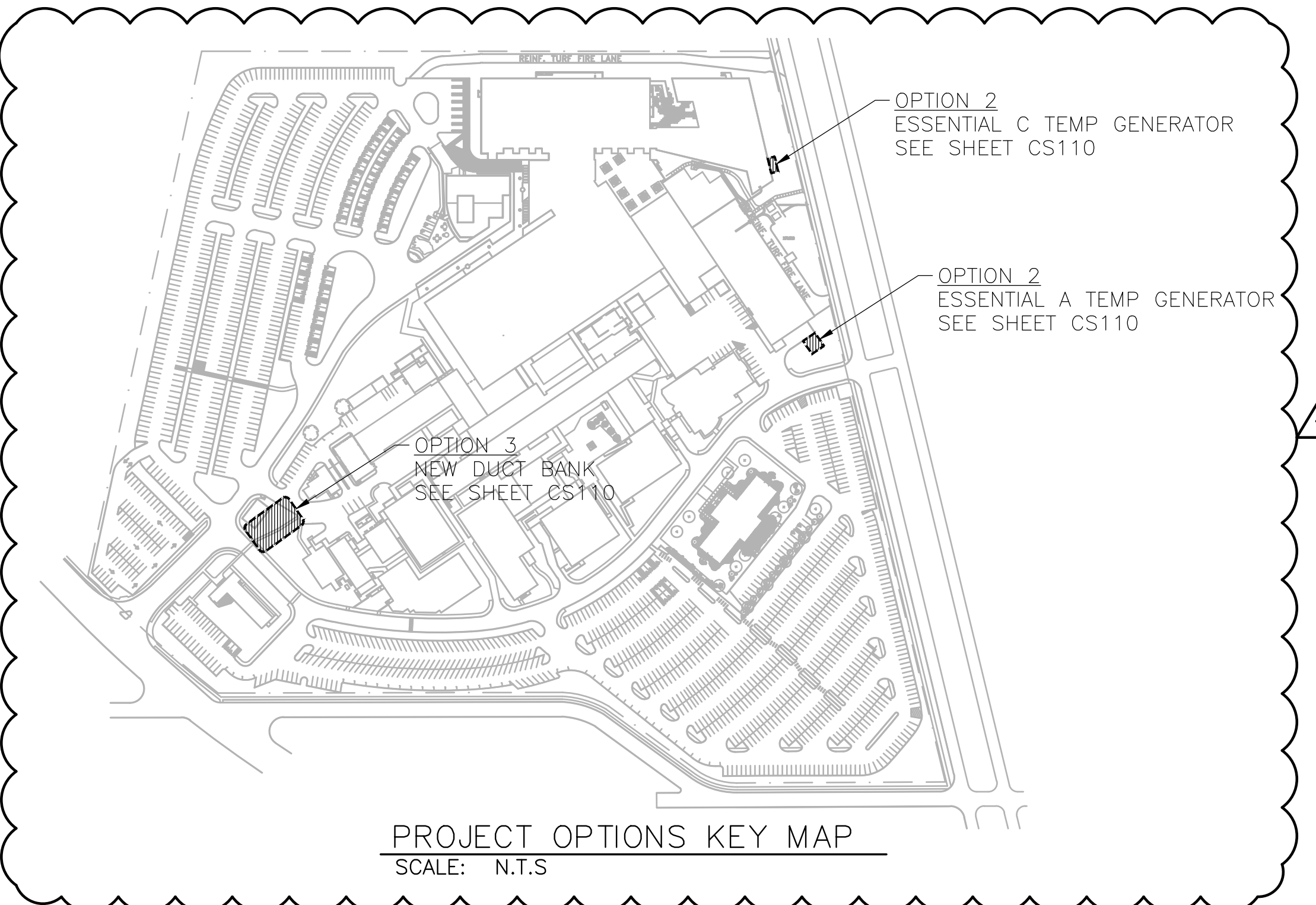


three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

Q:\FederalWay\2016\16.0009\00\CA00\Draws\CS101.dwg 3-28-16 11:32:48 AM mcl:budberg



EXISTING CONDITIONS SITE PLAN
SCALE: 1"=20'



PROJECT OPTIONS KEY MAP
SCALE: N.T.S.

LEGEND:

WORKING LIMITS

GENERAL NOTES:

PERMIT NOTE

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROCURE ALL APPLICABLE PERMITS, LICENSES AND CERTIFICATES RELATIVE TO THE TRADES TO COMPLETE THE PROJECT AND FOR THE USE OF SUCH WORK WHEN COMPLETED. COMPLIANCE SHALL BE AT ALL LEVELS; FEDERAL, STATE, AND COUNTY RELATING TO THE PERFORMANCE OF THIS WORK.

UTILITY NOTE

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THEIR REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT HAPPEN DUE TO THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. BERGERABAM ASSUMES NO LIABILITY FOR THE LOCATION OF UNDERGROUND UTILITIES.

EXISTING CONDITIONS NOTE

PRIOR TO BEGINNING WORK INSPECT AND CONFIRM ALL POINTS OF CONNECTIONS TO EXISTING UTILITIES OR SYSTEMS. POT HOLE IF NECESSARY TO VERIFY THE DRAWINGS AGAINST ALL APPLICABLE EXISTING CONDITIONS. NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF UNFORESEEN SITE CONDITIONS OR DISCREPANCIES.

TOPOGRAPHIC NOTE

THE TOPOGRAPHICAL DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED BY OTHERS. BERGERABAM CANNOT ENSURE THE ACCURACY OF THAT INFORMATION AND IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS.

TRENCH NOTE

TRENCH SAFETY IS THE CONTRACTOR'S RESPONSIBILITY. BERGERABAM ASSUMES NO RESPONSIBILITY. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49.17 RCW.

FILL SPECIFICATION NOTE

FILL MATERIAL SHALL NOT CONTAIN PETROLEUM PRODUCTS, OR SUBSTANCES WHICH ARE HAZARDOUS, DANGEROUS, TOXIC, OR WHICH OTHERWISE VIOLATE ANY STATE, FEDERAL, OR LOCAL LAW, ORDINANCE, CODE, REGULATION, RULE, ORDER, OR STANDARD.

ABBREVIATIONS:

ABAN	ABANDONED	MIN	MINIMUM
ADA	AMERICAN DISABILITIES ACT	MISC	MISCELLANEOUS
ACP	ASPHALT CONCRETE PAVEMENT	MJ	MECHANICAL JOINT
APROX	APPROXIMATELY	N	NORTH
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	NAD	NORTH AMERICAN DATUM
ASPH	ASPHALT	NAVD	NORTH AMERICAN VERTICAL DATUM
AVE	AVENUE	NE	NORTHEAST
AWWA	AMERICAN WATER WORKS ASSOCIATION	NOM	NOMINAL
BLDG	BUILDING	NTS	NOT TO SCALE
BMP	BEST MANAGEMENT PRACTICES	NW	NORTHWEST
BOC	BOTTOM OF CURB	OC	ON CENTER
BOT	BOTTOM	OD	OUTSIDE DIAMETER
BOW	BOTTOM OF WALL	OVHD	OVERHEAD
BVC	BEGIN VERTICAL CURVE	PC	POINT OF CURVATURE
CB	CATCH BASIN	PI	POINT OF HORIZONTAL INTERSECTION
CI	CAST IRON	PIV	POST INDICATOR VALVE
CL or C	CENTERLINE	PLNT	PLANTER OR PLANT AREA
CDF	CONTROLLED DENSITY FILL	PL or P	PROPERTY LINE
CFS	CUBIC FEET PER SECOND	POC	POINT ON CURVE
CLR	CLEAR	POB	POINT OF BEGINNING
CM	CENTIMETER	PPM	PARTS PER MILLION
CMP	CORRUGATED METAL PIPE	PROP	PROPOSED
COMM	COMMUNICATION(S)	PT	POINT OR POINT OF TANGENCY
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE PIPE
CPEP	CORRUGATED POLYETHYLENE PIPE (N-12)	PVI	POINT OF VERTICAL INTERSECTION
CSBC	CRUSHED SURFACING BASE COURSE	QPEAK	PEAK FLOW
CSTC	CRUSHED SURFACING TOP COURSE	R	RADIUS
CTR	CENTER	RCP	REINFORCED CONCRETE PIPE
CY	CUBIC YARDS	RJ	RESTRAINED JOINT
DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY	ROW	RIGHT-OF-WAY
DI	DUCTILE IRON	RT	RIGHT
DIA or Ø	DIAMETER	S	SOUTH
DWG	DRAWING	SD	STORM DRAIN
E	EAST	SDCO	STORM DRAIN CLEANOUT
EA	EACH	SDMH	STORM DRAIN MANHOLE
EG	EXISTING GROUND	SE	SOUTHEAST
ELEC	ELECTRICAL	SEC	SECTION
ELEV	ELEVATION	SF	SQUARE FOOT
EP	EDGE OF PAVEMENT	SPEC	SPECIFICATION
ESMT	EASEMENT	SS	SANITARY SEWER
EVC	END VERTICAL CURVE	SSMH	SANITARY SEWER MANHOLE
EXIST	EXISTING	ST	STREET
FD	FOOTING DRAIN	STA	STATION
FDC	FIRE DEPARTMENT CONNECTION	STD	STANDARD
FFE	FINISHED FLOOR ELEVATION	SW	SOUTHWEST
FG	FINISH GRADE	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
FH	FIRE HYDRANT	TAN	TANGENT POINT
FIG	FIGURE	TELE	TELEPHONE
FL	FLANGE	T	TOWNSHIP OR TANGENT LENGTH
FM	FORCE MAIN	TESC	TEMPORARY EROSION & SEDIMENT CONTROL
FO	FIBER OPTIC	TOC	TOP OF CURB
FOC	FACE OF CURB	TOW	TOP OF WALL
FOW	FACE OF WALL	TYP	TYPICAL
FT	FEET	UG	UNDERGROUND
G	GAS	VC	VERTICAL CURVE
HDPE	HIGH DENSITY POLYETHYLENE PIPE	VERT	VERTICAL
HP	HIGH POINT	W	WEST
HMA	HOT MIX ASPHALT	WM	WATER METER
HORIZ	HORIZONTAL	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
HWY	HIGHWAY	WSL	WATER SURFACE ELEVATION
ID	INSIDE DIAMETER	W/	WITH
IE	INVERT ELEVATION		
IN	INCH(ES)		
LBS	POUNDS		
LF	LINEAR FEET		
LT	LEFT		
LP	LOW POINT		
MAX	MAXIMUM		
MH	MANHOLE		

AMENDMENT DRAWING

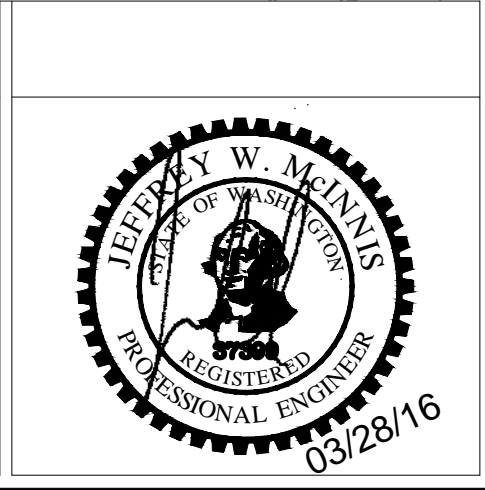
SUPERSEDES CS101

REVISION 1	04-01-2016
Revisions	Date

CONSULTANTS:

BergerABAM

33301 9th Avenue South, Suite 300
Federal Way, Washington 98003-2600
(206) 431-2300 Fax: (206) 431-2250



ARCHITECT/ENGINEERS:

SÄZAN GROUP

600 Stewart St., Ste 1400
Seattle, Washington 98101

Tel 206.267.1700
Fax 206.267.1701
SAZAN # 269-1507

Drawing Title
EXISTING CONDITIONS

Approved Project Director
VAPAHCS PLANNING AND ENGINEERING

Project Title
**VA PUGET SOUND HEALTH CARE SYSTEM
UPGRADE SEATTLE ELECTRICAL
DISTRIBUTION FROM 5kV TO 15kV**

Location
1660 South Columbian Way, Seattle, WA 98108

Date
02-25-2016

Checked
STORY

Drawn
BUDSBERG

Project Number
663-15-102

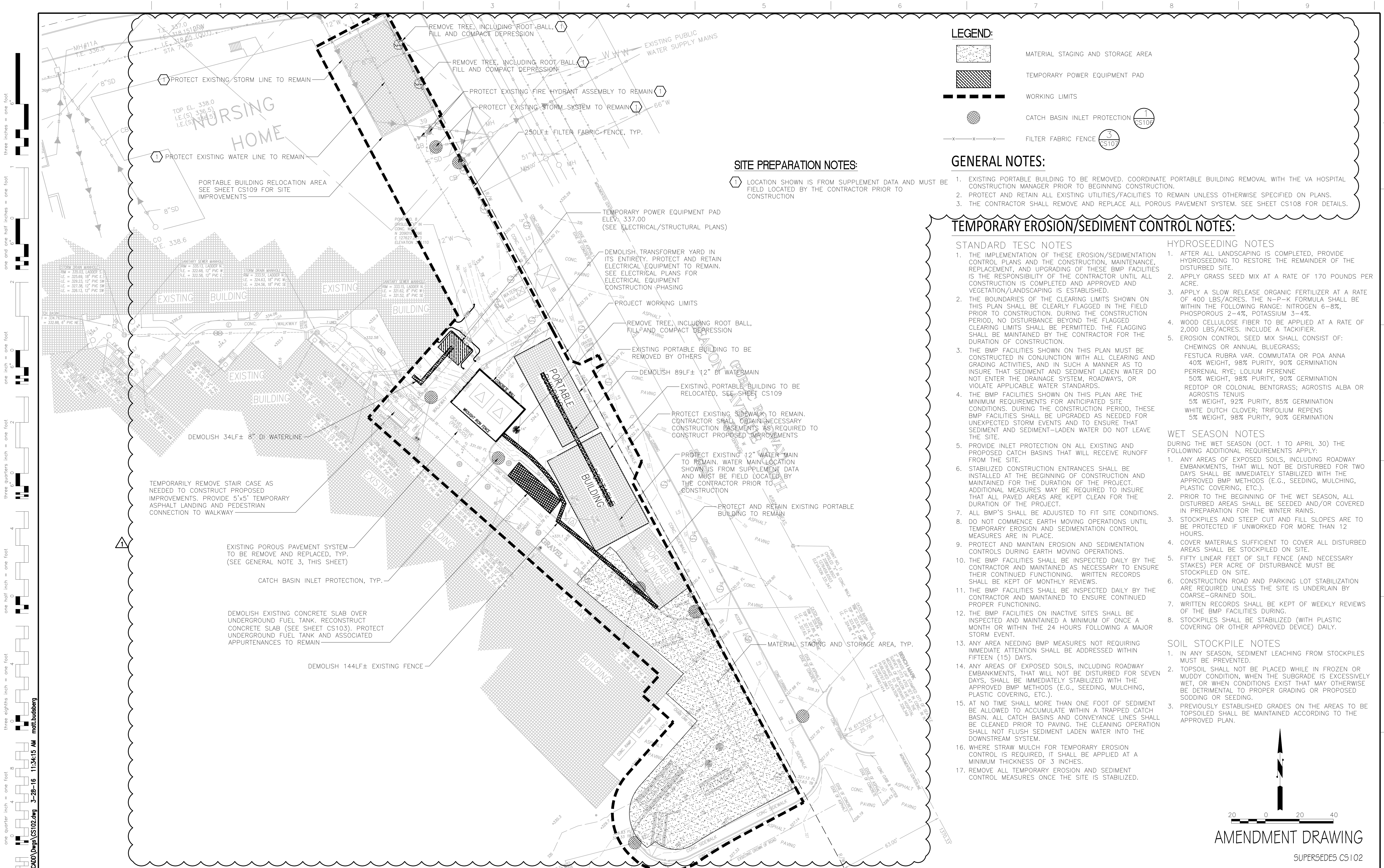
Building Number
100

Drawing Number
CS101R

Dwg. 1 of 10

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs



LEGEND:

- MATERIAL STAGING AND STORAGE AREA
- TEMPORARY POWER EQUIPMENT PAD
- WORKING LIMITS
- CATCH BASIN INLET PROTECTION
- FILTER FABRIC FENCE

GENERAL NOTES:

- EXISTING PORTABLE BUILDING TO BE REMOVED. COORDINATE PORTABLE BUILDING REMOVAL WITH THE VA HOSPITAL CONSTRUCTION MANAGER PRIOR TO BEGINNING CONSTRUCTION.
- PROTECT AND RETAIN ALL EXISTING UTILITIES/FACILITIES TO REMAIN UNLESS OTHERWISE SPECIFIED ON PLANS.
- THE CONTRACTOR SHALL REMOVE AND REPLACE ALL POROUS PAVEMENT SYSTEM. SEE SHEET CS108 FOR DETAILS.

TEMPORARY EROSION/SEDIMENT CONTROL NOTES:

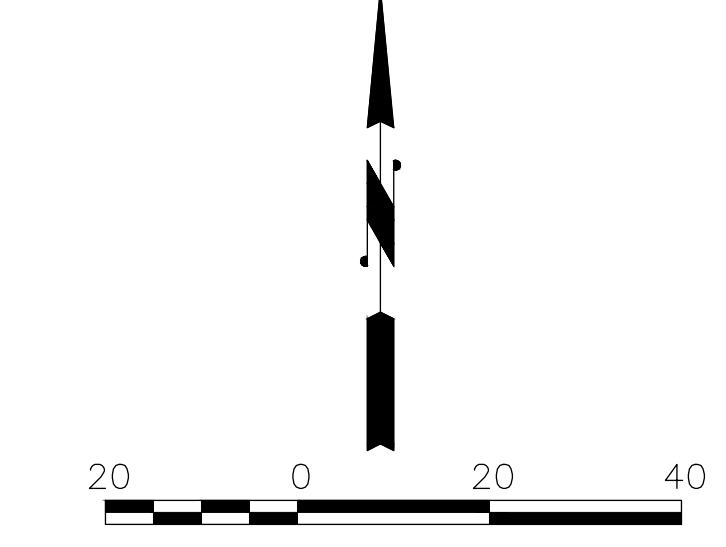
- STANDARD TESC NOTES
- THE IMPLEMENTATION OF THESE EROSION/SEDIMENTATION CONTROL PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE BMP FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
 - THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
 - THE BMP FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
 - THE BMP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE BMP FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
 - PROVIDE INLET PROTECTION ON ALL EXISTING AND PROPOSED CATCH BASINS THAT WILL RECEIVE RUNOFF FROM THE SITE.
 - STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
 - ALL BMP'S SHALL BE ADJUSTED TO FIT SITE CONDITIONS.
 - DO NOT COMMENCE EARTH MOVING OPERATIONS UNTIL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE.
 - PROTECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS DURING EARTH MOVING OPERATIONS.
 - THE BMP FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF MONTHLY REVIEWS.
 - THE BMP FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.
 - THE BMP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A MAJOR STORM EVENT.
 - ANY AREA NEEDING BMP MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
 - ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR SEVEN DAYS, SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED BMP METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
 - AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
 - WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 3 INCHES.
 - REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ONCE THE SITE IS STABILIZED.
- HYDROSEEDING NOTES
- AFTER ALL LANDSCAPING IS COMPLETED, PROVIDE HYDROSEEDING TO RESTORE THE REMAINDER OF THE DISTURBED SITE.
 - APPLY GRASS SEED MIX AT A RATE OF 170 POUNDS PER ACRE.
 - APPLY A SLOW RELEASE ORGANIC FERTILIZER AT A RATE OF 400 LBS/ACRES. THE N-P-K FORMULA SHALL BE WITHIN THE FOLLOWING RANGE: NITROGEN 6-8%, PHOSPHOROUS 2-4%, POTASSIUM 3-4%.
 - WOOD CELLULOSE FIBER TO BE APPLIED AT A RATE OF 2,000 LBS/ACRES. INCLUDE A TACKIFIER.
 - EROSION CONTROL SEED MIX SHALL CONSIST OF:
CHEWINGS OR ANNUAL BLUEGRASS:
FESTUCA RUBRA VAR. COMMUTATA OR POA ANNA
40% WEIGHT, 98% PURITY, 90% GERMINATION
PERENNIAL RYE; LOLIUM PERENNE
50% WEIGHT, 98% PURITY, 90% GERMINATION
REDTOP OR COLONIAL BENTGRASS; AGROSTIS ALBA OR AGROSTIS TENUIS
5% WEIGHT, 92% PURITY, 85% GERMINATION
WHITE DUTCH CLOVER; TRIFOLIUM REPENS
5% WEIGHT, 98% PURITY, 90% GERMINATION

WET SEASON NOTES

- DURING THE WET SEASON (OCT. 1 TO APRIL 30) THE FOLLOWING ADDITIONAL REQUIREMENTS APPLY:
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED BMP METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
 - PRIOR TO THE BEGINNING OF THE WET SEASON, ALL DISTURBED AREAS SHALL BE SEEDED AND/OR COVERED IN PREPARATION FOR THE WINTER RAINS.
 - STOCKPILES AND STEEP CUT AND FILL SLOPES ARE TO BE PROTECTED IF UNWORKED FOR MORE THAN 12 HOURS.
 - COVER MATERIALS SUFFICIENT TO COVER ALL DISTURBED AREAS SHALL BE STOCKPILED ON SITE.
 - FIFTY LINEAR FEET OF SILT FENCE (AND NECESSARY STAKES) PER ACRE OF DISTURBANCE MUST BE STOCKPILED ON SITE.
 - CONSTRUCTION ROAD AND PARKING LOT STABILIZATION ARE REQUIRED UNLESS THE SITE IS UNDERLAIN BY COARSE-GRAINED SOIL.
 - WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE BMP FACILITIES DURING.
 - STOCKPILES SHALL BE STABILIZED (WITH PLASTIC COVERING OR OTHER APPROVED DEVICE) DAILY.

SOIL STOCKPILE NOTES

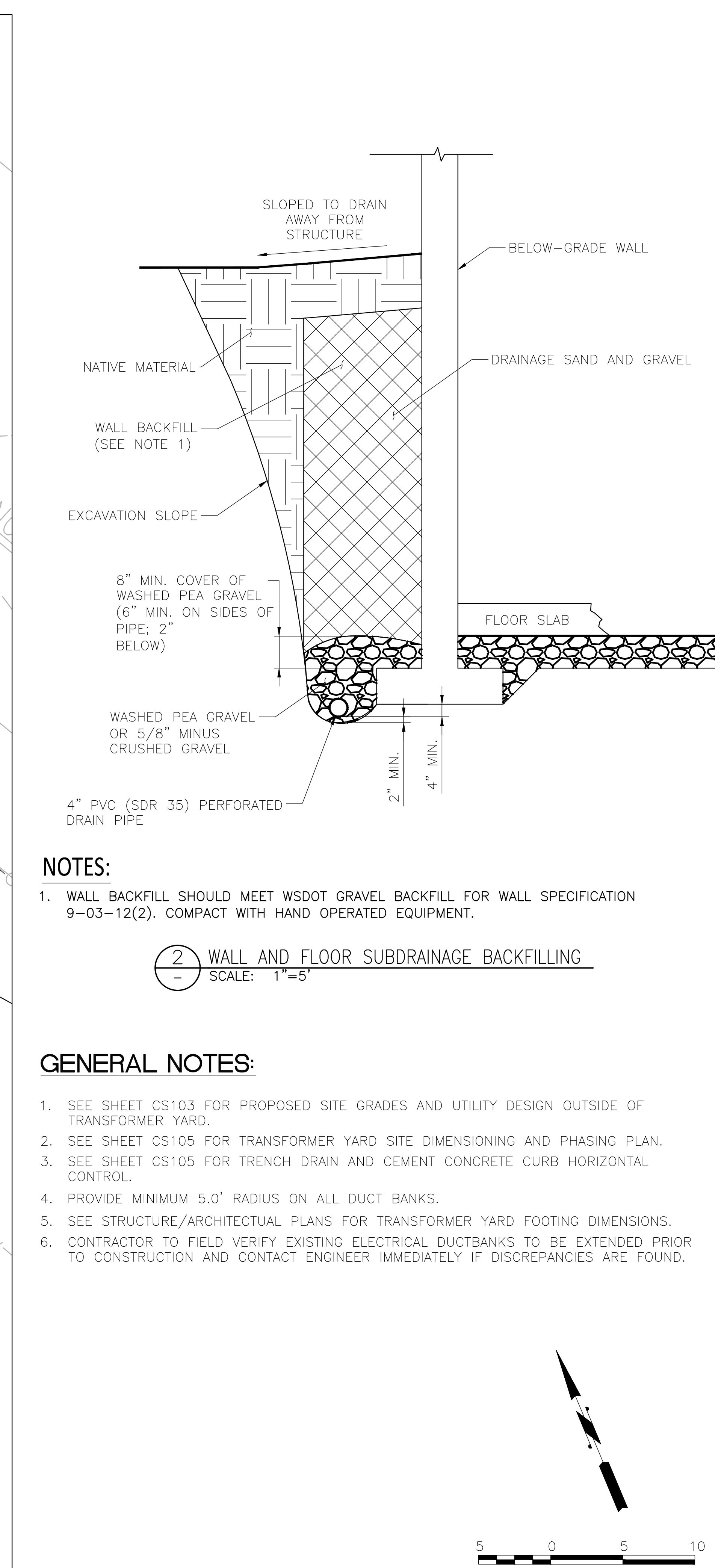
- IN ANY SEASON, SEDIMENT LEACHING FROM STOCKPILES MUST BE PREVENTED.
- TOPSOIL SHALL NOT BE PLACED WHILE IN FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY WET, OR WHEN CONDITIONS EXIST THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING.
- PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE APPROVED PLAN.



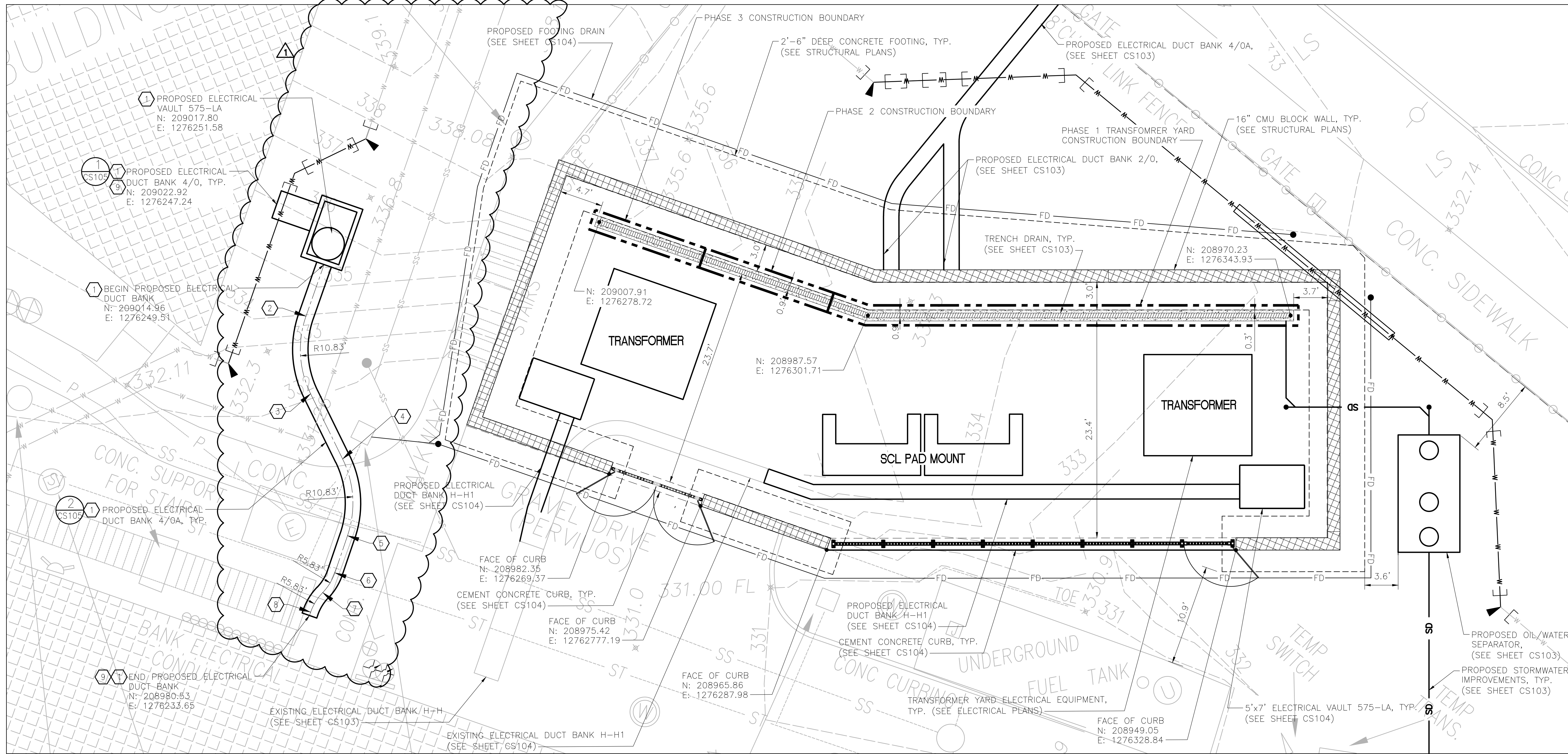
AMENDMENT DRAWING

SUPERSEDES CS102

<p>CONSULTANTS:</p> <p>BergerABAM</p> <p>33301 9th Avenue South, Suite 300 Federal Way, Washington 98003-2600 (206) 431-2300 Fax: (206) 431-2250</p>		<p>ARCHITECT/ENGINEERS:</p> <p>SÄZAN GROUP</p> <p>600 Stewart St., Ste 1400 Seattle, Washington 98101</p> <p>Tel 206.267.1700 Fax 206.267.1701</p> <p>SAZAN #</p>		<p>Drawing Title</p> <p>SITE PREPARATION</p>		<p>Project Title</p> <p>VA PUGET SOUND HEALTH CARE SYSTEM UPGRADE SEATTLE ELECTRICAL DISTRIBUTION FROM 5kV TO 15kV</p>		<p>Project Number</p> <p>663-15-102</p>		<p>Office of Construction and Facilities Management</p>	
<p>Approved Project Director</p> <p>VAPAHCS PLANNING AND ENGINEERING</p>		<p>Location</p> <p>1660 South Columbian Way, Seattle, WA 98108</p>		<p>Drawing Number</p> <p>CS102R</p>		<p>Date</p> <p>02-25-2016</p>		<p>Checked</p> <p>STORY</p>		<p>Drawn</p> <p>BUDSBERG</p>	
<p>REVISION 1</p> <p>04-01-2016</p>		<p>03/28/16</p>		<p>Dwg. 2 of 10</p>							



AMENDMENT DRAWING
SUPERSEDES CS104



GENERAL NOTES:

- SEE SHEET CS103 FOR PROPOSED SITE GRADES AND UTILITY DESIGN OUTSIDE OF TRANSFORMER YARD.
- SEE SHEET CS104 FOR TRANSFORMER YARD SITE AND GRADING PLAN.
- NORTHINGS AND EASTINGS PROVIDED ARE TO THE CENTER OF STRUCTURE/SURFACE FEATURE UNLESS OTHERWISE SPECIFIED ON PLANS.
- PROVIDE MINIMUM 5.0' RADIUS ON ALL DUCT BANKS.
- CONTRACTOR TO FIELD VERIFY EXISTING DUCT BANK TO BE EXTENDED PRIOR TO CONSTRUCTION AND CONTACT ENGINEER IMMEDIATELY IF DISCREPANCY IS FOUND.

PHASING NOTES:

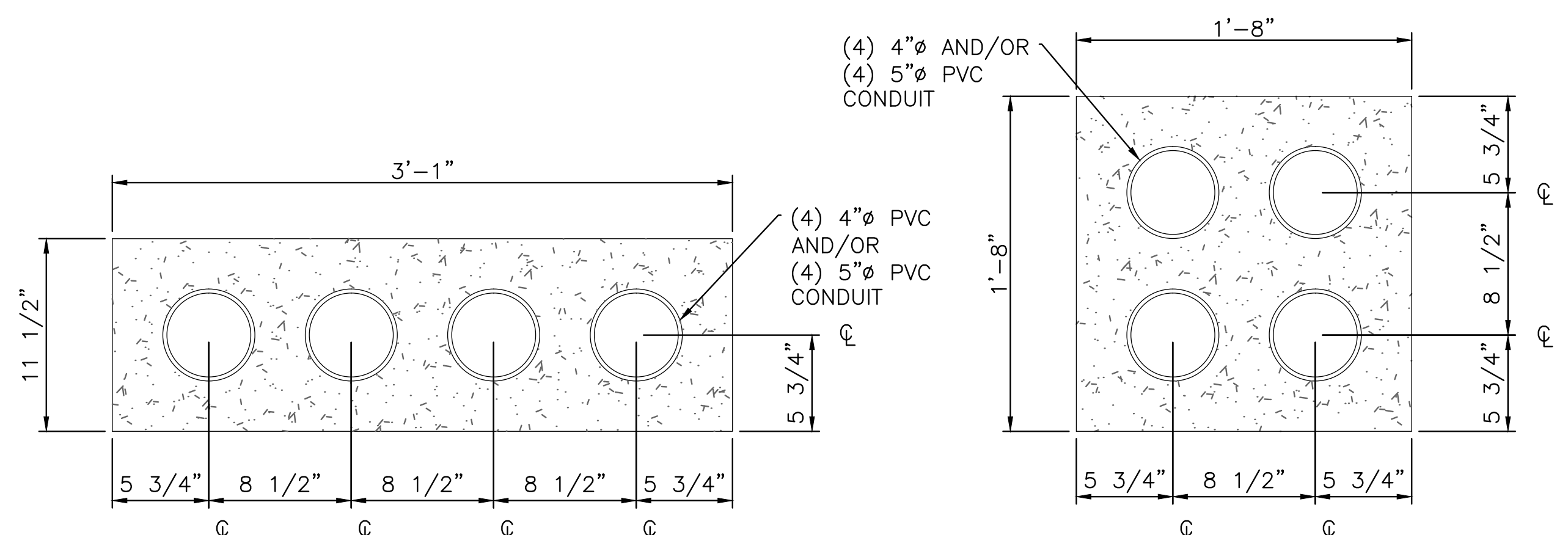
- CONSTRUCT ALL CIVIL IMPROVEMENTS AS PART OF PHASE 1 UNLESS OTHERWISE SPECIFIED ON PLANS. SEE CONSTRUCTION PHASE BOUNDARIES, THIS SHEET.

CONSTRUCTION NOTES:

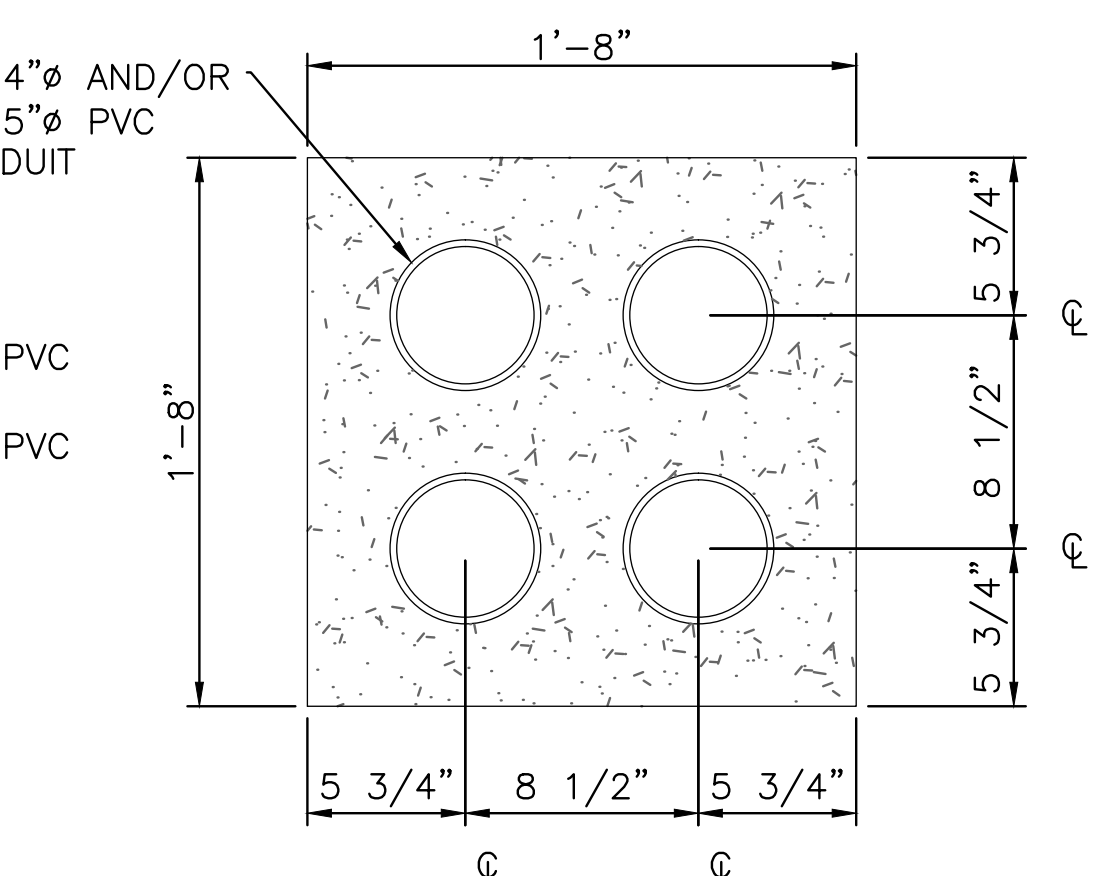
- SEE ELECTRICAL PLANS FOR VAULT DESIGN. PROVIDE 27" MINIMUM COVER OVER DUCT BANK AND 30" MINIMUM COVER OVER CONDUITS WHILE MAINTAINING THE REQUIRED MINIMUM SEPARATION BETWEEN EXISTING UTILITIES. SEE ALSO GENERAL NOTE 5. CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY IF EXISTING UTILITIES, NOT SHOWN ON PLAN TO BE RELOCATED, INTERFERE WITH THE PROPOSED DUCT BANK/CONDUIT ROUTING.
- PROPOSED ELECTRICAL DUCT BANK PC
N: 209010.54
E: 1276245.57
- PROPOSED ELECTRICAL DUCT BANK PT
N: 209002.62
E: 1276242.86
- PROPOSED ELECTRICAL DUCT BANK PC
N: 208994.79
E: 1276243.38
- PROPOSED ELECTRICAL DUCT BANK PT
N: 208986.94
E: 1276240.73
- PROPOSED ELECTRICAL DUCT BANK PC
N: 208983.75
E: 1276237.94
- PROPOSED ELECTRICAL DUCT BANK PI
N: 208982.27
E: 1276235.92
- PROPOSED ELECTRICAL DUCT BANK PT
N: 208980.81
E: 1276233.90
- END DUCT BANK DESIGN 5.0' FROM BUILDING FACE. SEE ELECTRICAL PLANS FOR CONTINUATION.

SCL EAST CAMPUS SERVICE YARD & SITE DIMENSIONING & PHASING PLAN

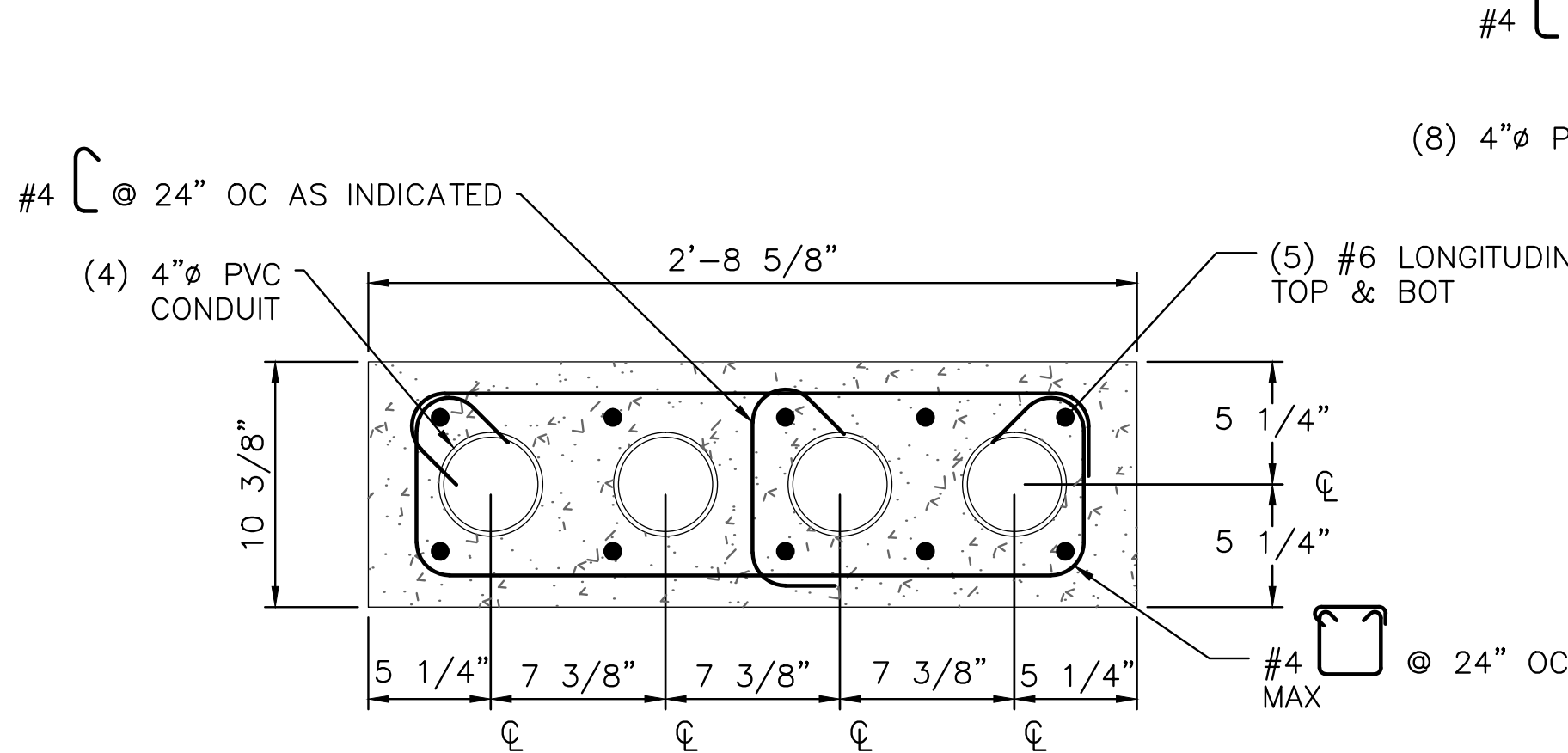
SCALE: 1"=5'



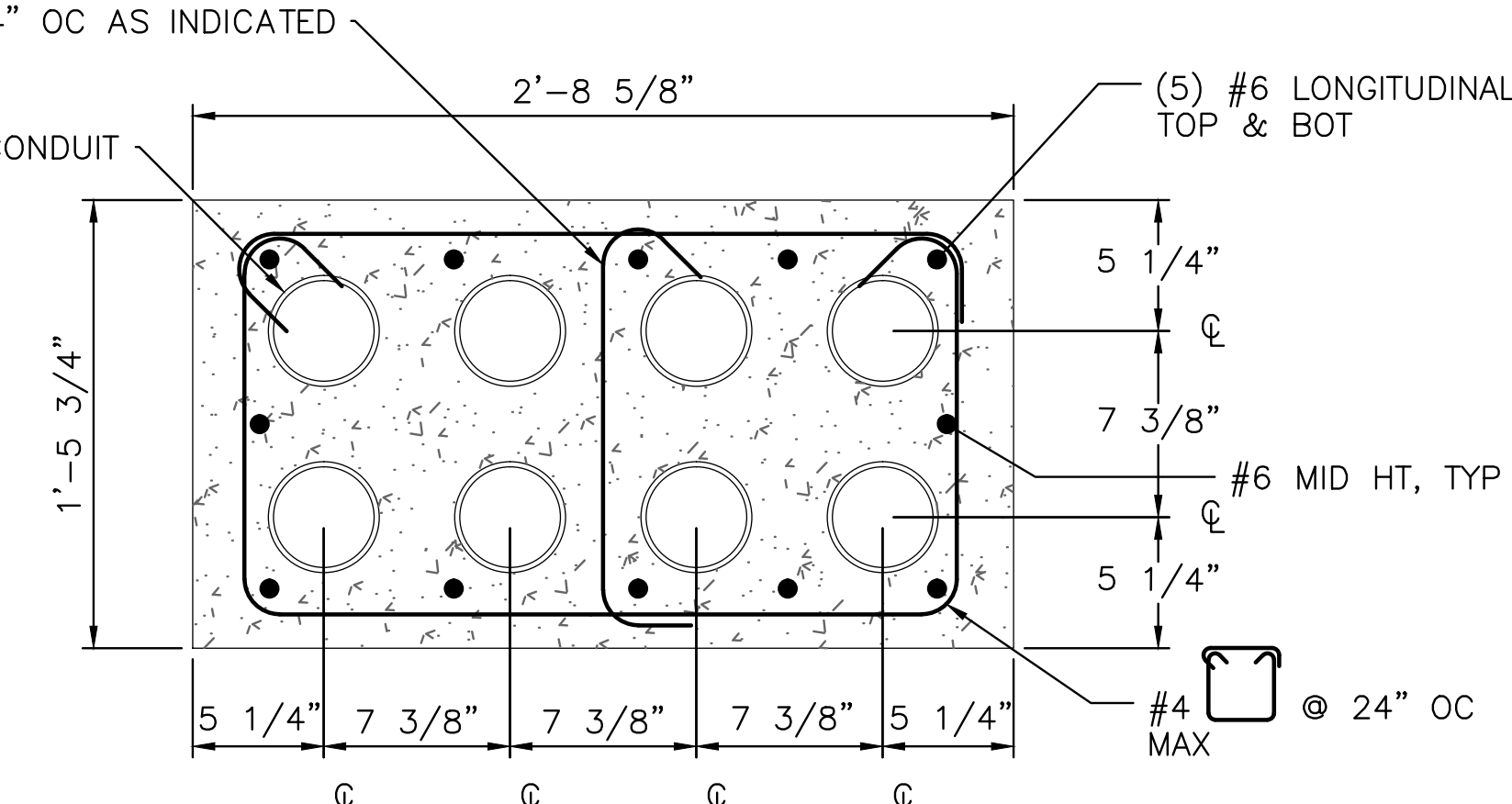
1 ELECTRICAL DUCT BANK SECTION 4/0
CS103 SCALE: N.T.S.



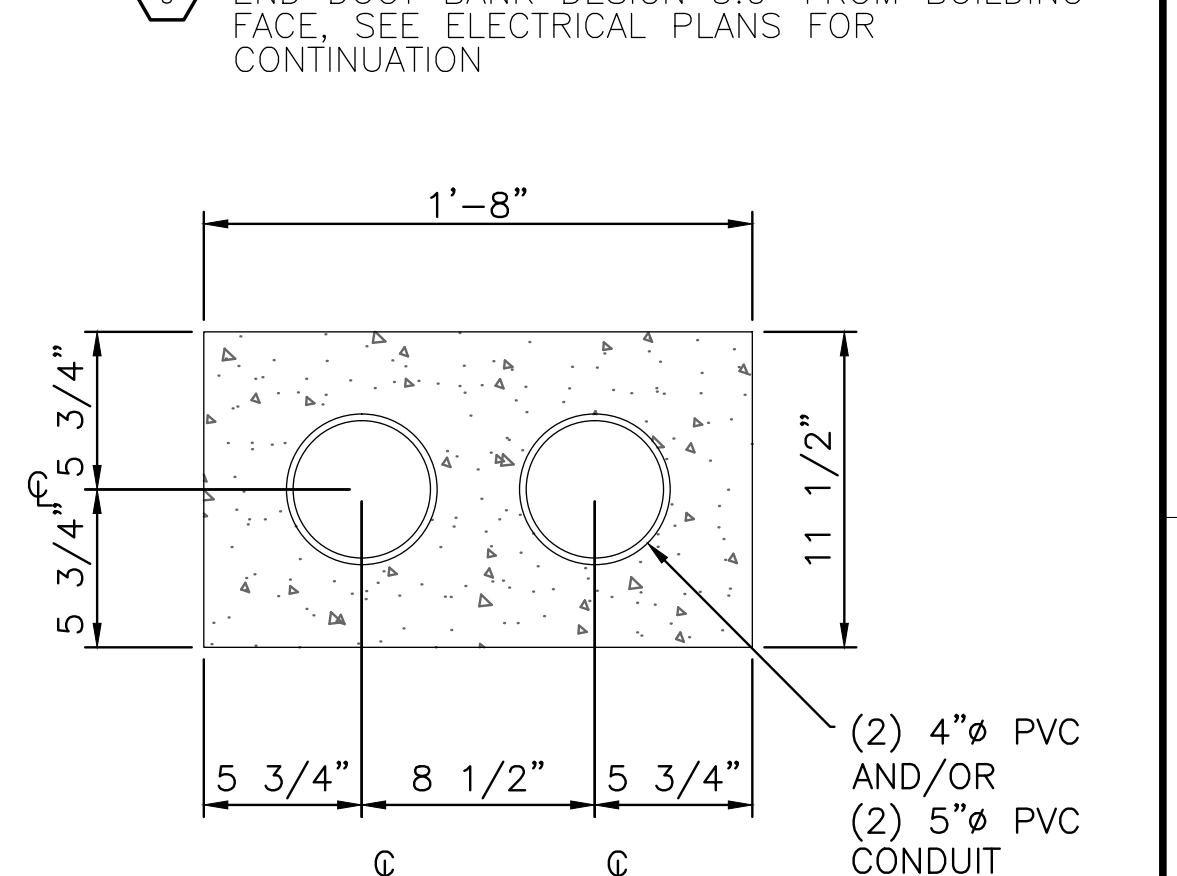
2 ELECTRICAL DUCT BANK SECTION 4/0A
CS104 SCALE: N.T.S.



3 ELECTRICAL DUCT BANK SECTION H-H1
CS104 SCALE: N.T.S.



4 ELECTRICAL DUCT BANK SECTION H-H2
CS104 SCALE: N.T.S.



5 ELECTRICAL DUCT BANK SECTION 2/0
CS104 SCALE: N.T.S.

AMENDMENT DRAWING

SUPERSEDES CS105

CONSULTANTS:



33301 9th Avenue South, Suite 300
Federal Way, Washington 98003-2600
(206) 431-2300 Fax: (206) 431-2250

ARCHITECT/ENGINEERS:



600 Stewart St., Ste 1400
Seattle, Washington 98101
Tel 206.267.1700
Fax 206.267.1701
SAZAN # 269-1507

Drawing Title

DETAIL SHEET

Approved Project Director

VAPAHCS PLANNING AND ENGINEERING

Project Title

VA PUGET SOUND HEALTH CARE SYSTEM
UPGRADE SEATTLE ELECTRICAL
DISTRIBUTION FROM 5KV TO 15KV

Location

1660 South Columbian Way, Seattle, WA 98108

Date

02-25-2016

Checked

STORY

Drawn

BUDSBERG

Project Number

663-15-102

Building Number

100

Drawing Number

CS105R

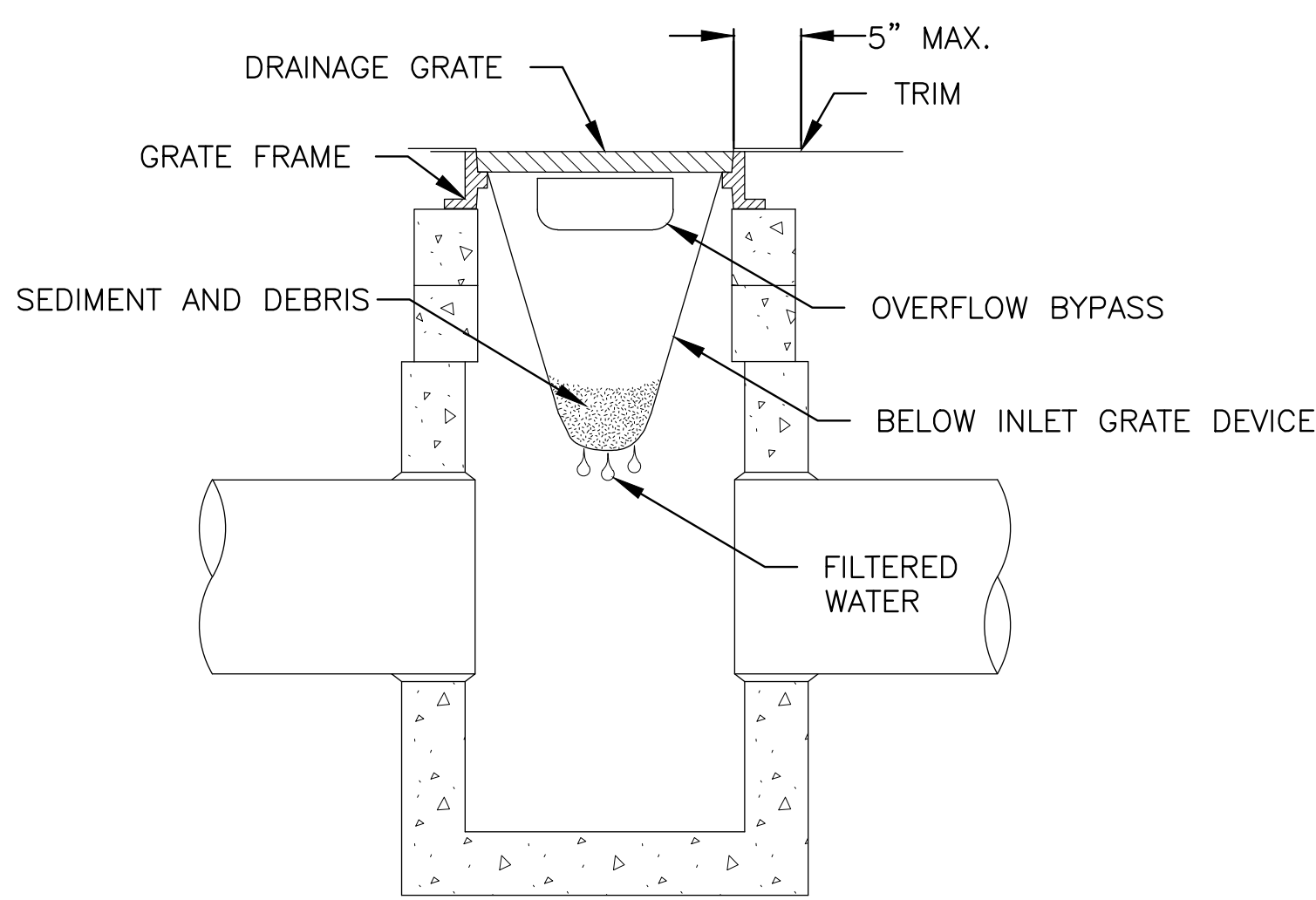
Dwg. 5 of 10

Office of
Construction
and Facilities
Management

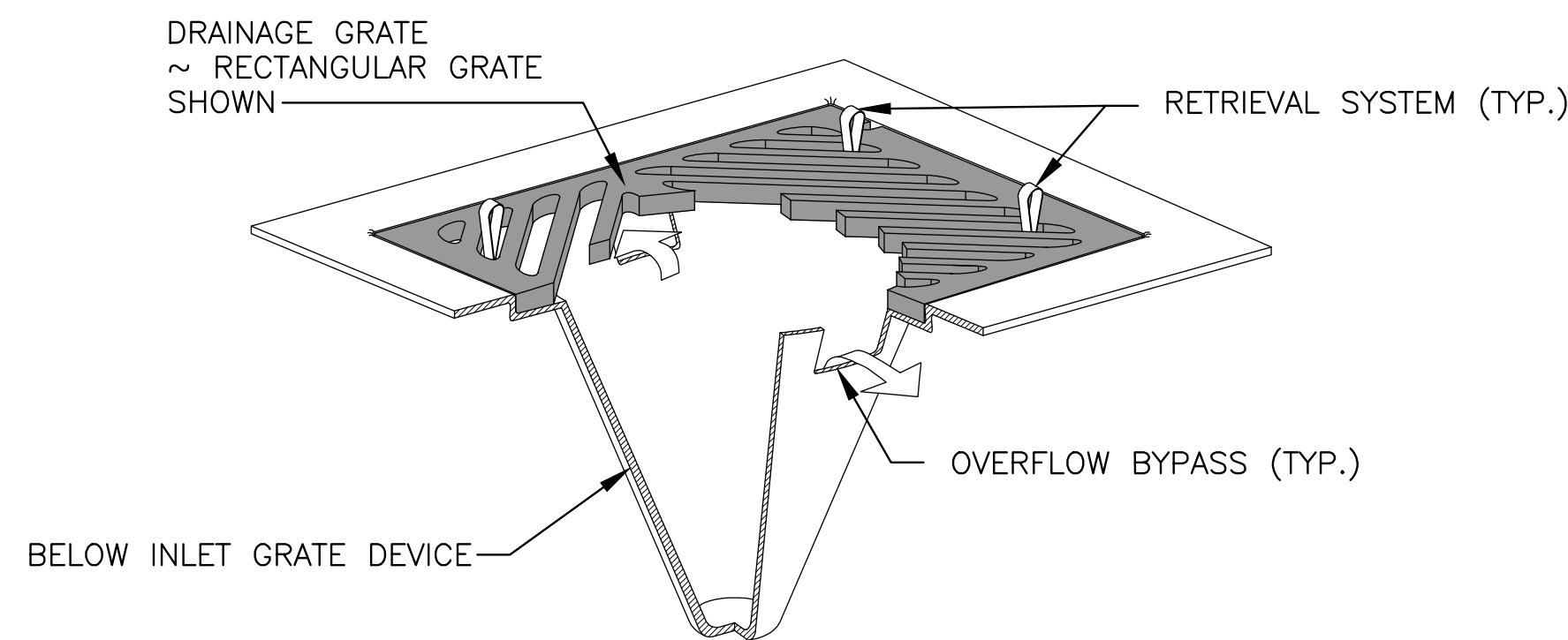
Department of
Veterans Affairs

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

02-FederalWay\2016\16.0009\00\CA00\Drawn\CS106.dwg 3-28-16 11:42:38 AM mcdubberg



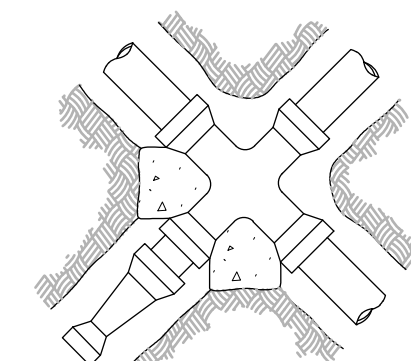
SECTION VIEW



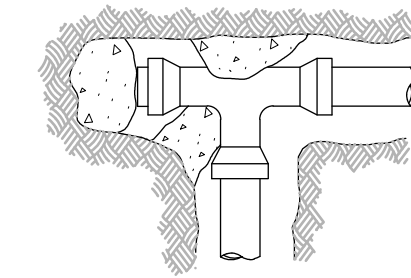
ISOMETRIC VIEW

1. SIZE THE BELOW INLET GRATE DEVISE (BIGD) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
2. THE BIGD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BIGD WITHOUT SPILLING THE COLLECTED MATERI
4. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION 8-01.3(15).

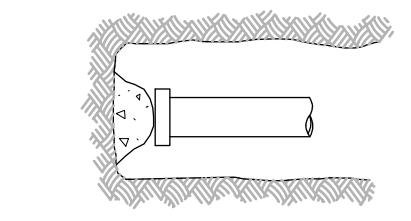
1 CATCH BASIN INLET PROTECTION
CS102 SCALE: N.T.S.



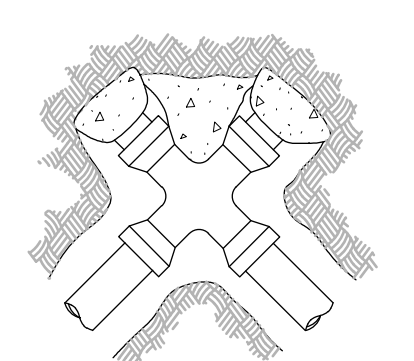
PLAN VIEW
UNBALANCED CROSS
(USE COLUMNS A)



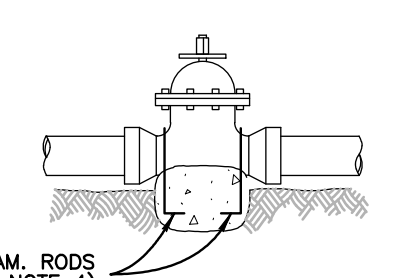
PLAN VIEW
PLUGGED TEE
(USE COLUMNS B)



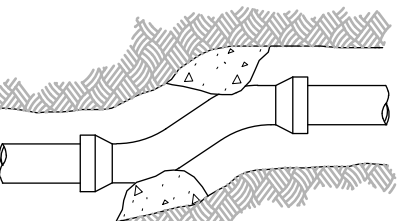
PLAN VIEW
DEAD END



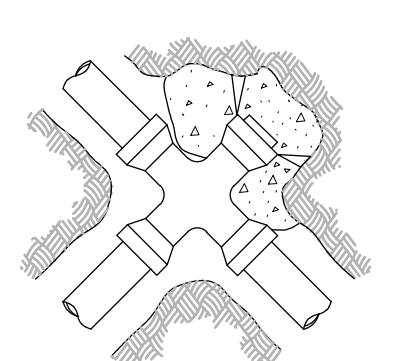
PLAN VIEW
PLUGGED CROSS
(USE COLUMNS B)



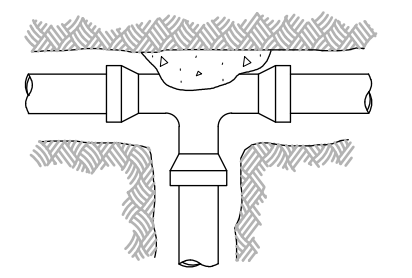
PROFILE VIEW
VALVE
(USE COLUMNS A)



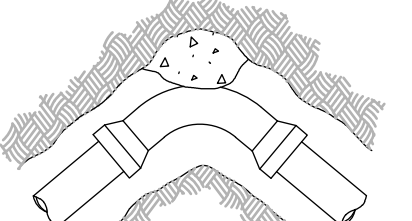
PLAN VIEW
OFFSET
(USE COLUMNS B-E)



PLAN VIEW
PLUGGED CROSS
(USE COLUMNS A)



PLAN VIEW
TEE



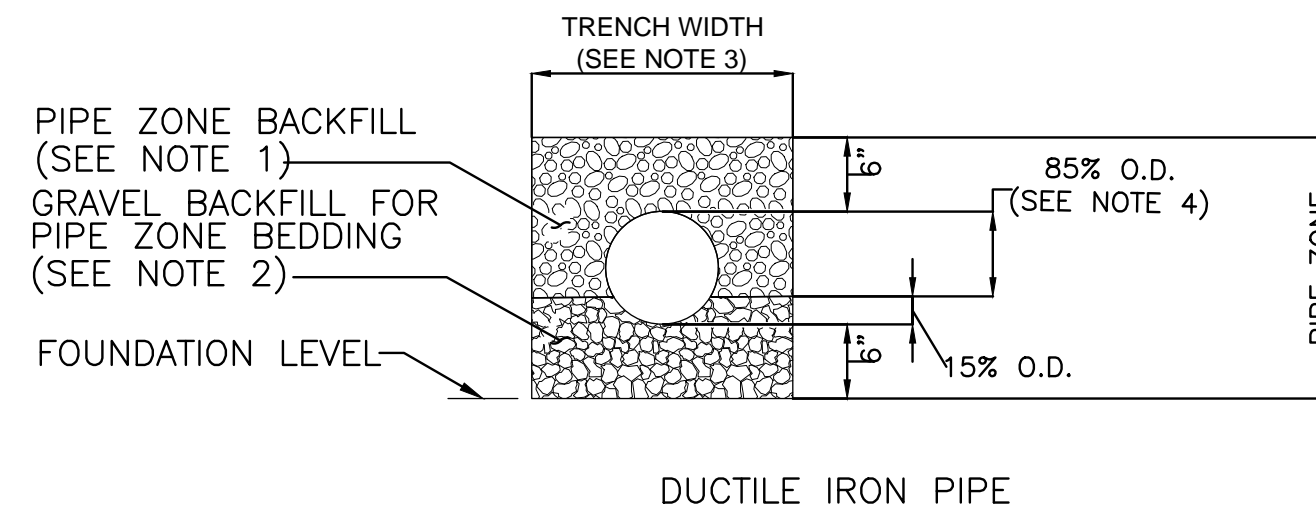
PLAN VIEW
BEND

SIZE	TEST PRESSURE (PSI)	THRUST AT FITTINGS IN POUNDS				
		A TEE AND DEAD ENDS	B 90° BEND	C 45° BEND	D 22.5° BEND	E 11.25° BEND
4"	250	3,140	4,440	2,405	1,225	615
6"	250	7,070	9,995	5,410	2,760	1,385
8"	250	12,565	17,770	9,620	4,905	2,465
10"	250	19,635	27,770	15,030	7,660	3,850
12"	250	28,275	39,985	21,640	11,030	5,545
14"	250	38,485	54,425	29,455	15,015	7,545
16"	250	50,265	71,085	38,470	19,615	9,855

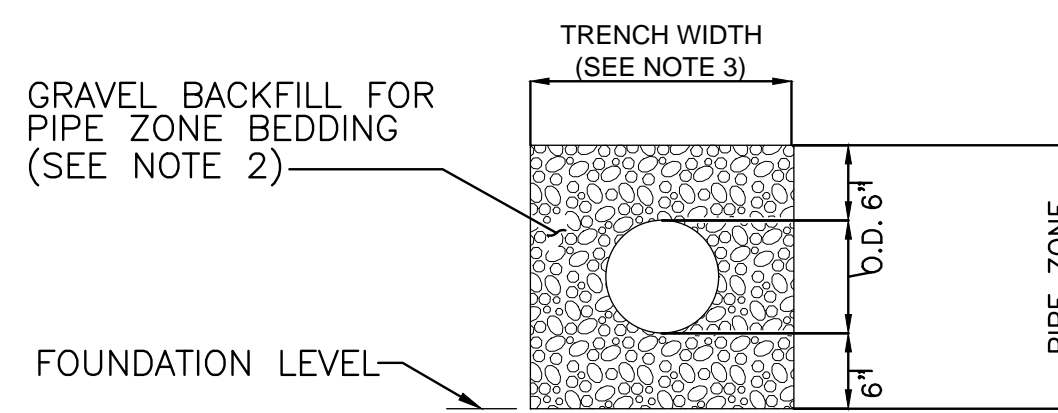
SOIL TYPE	SAFE BEARING LOAD (PSI)
MUCK, PEAT, ETC.	0
SOFT CLAY	1,000
SAND	2,000
SAND AND GRAVEL	3,000
SAND AND GRAVEL CEMENTED WITH CLAY	4,000
HARD SHALE	10,000

1. CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
2. DIVIDE THRUST BY SAFE BEARING LOAD TO DETERMINE REQUIRED AREA (IN SQUARE FEET) OF CONCRETE TO DISTRIBUTE LOAD.
3. AREAS TO BE ADJUSTED FOR OTHER PRESSURE CONDITIONS.
4. PROVIDE TWO 1" MINIMUM DIAMETER RODS ON VALVES UP THROUGH 12" DIAMETER.

2 CEMENT CONCRETE THRUST BLOCKING HORIZONTAL
CS103 SCALE: N.T.S.

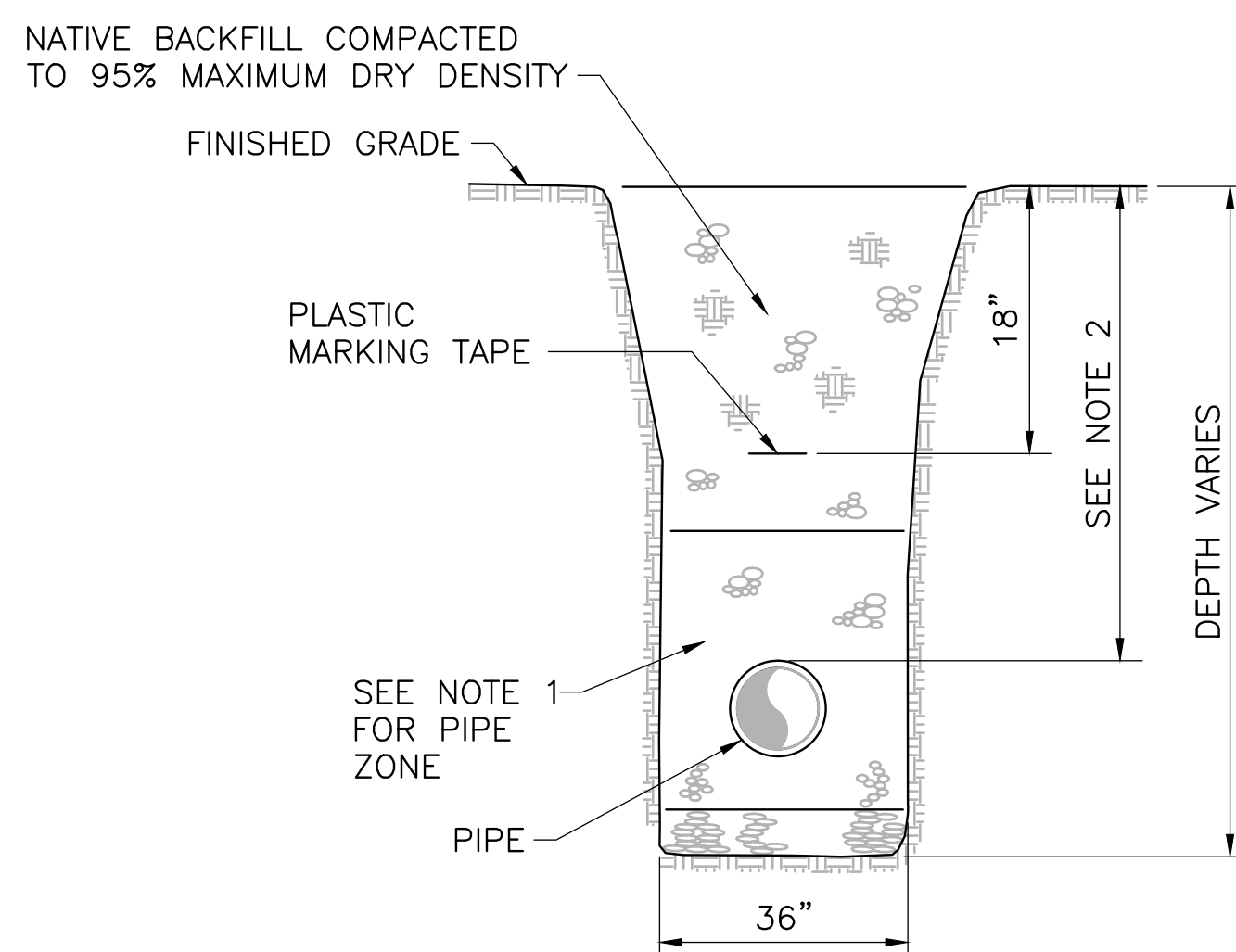


DUCTILE IRON PIPE



THERMOPLASTIC PIPE

3 PIPE ZONE BEDDING AND BACKFILL
CS103 SCALE: N.T.S.

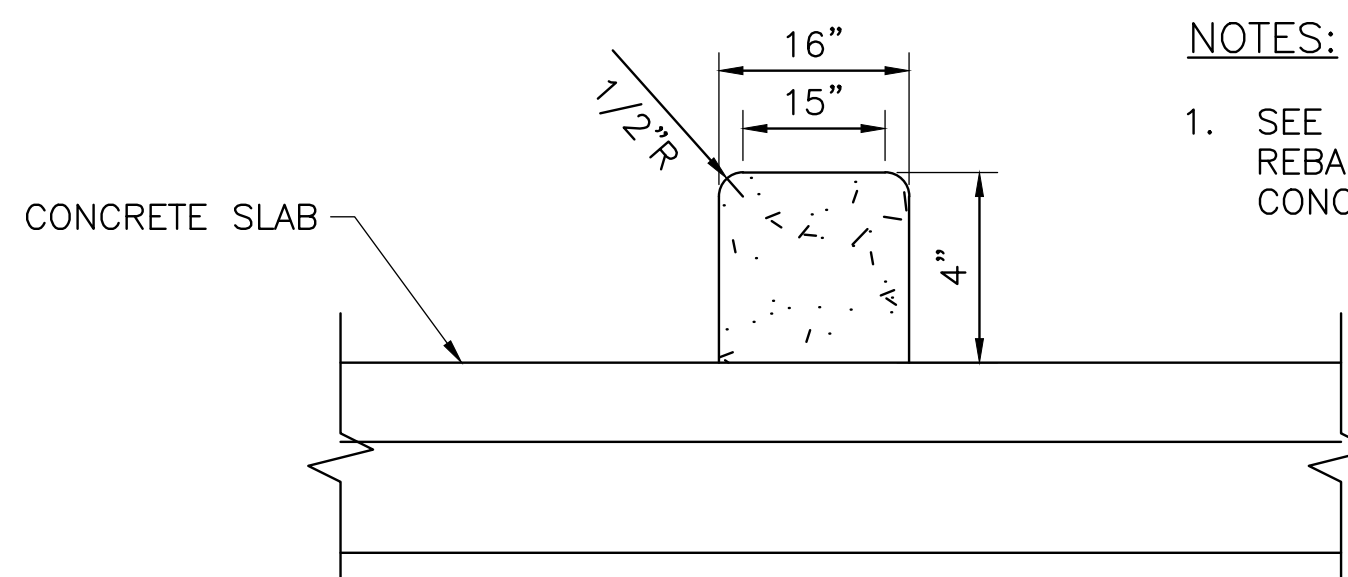


NOTES:

MATERIAL SHALL BE AS FOLLOWS:

1. PIPE BEDDING PER DETAIL 3, THIS SHEET.
2. MINIMUM DEPTH OF PIPE COVER IS 36".
3. IF 95% MDD CANNOT BE ACHIEVED WITH NATIVE SOIL, TRENCH BACKFILL MATERIAL IN ACCORDANCE WITH WSDOT STD SPEC 9-03.19 SHALL BE USED.

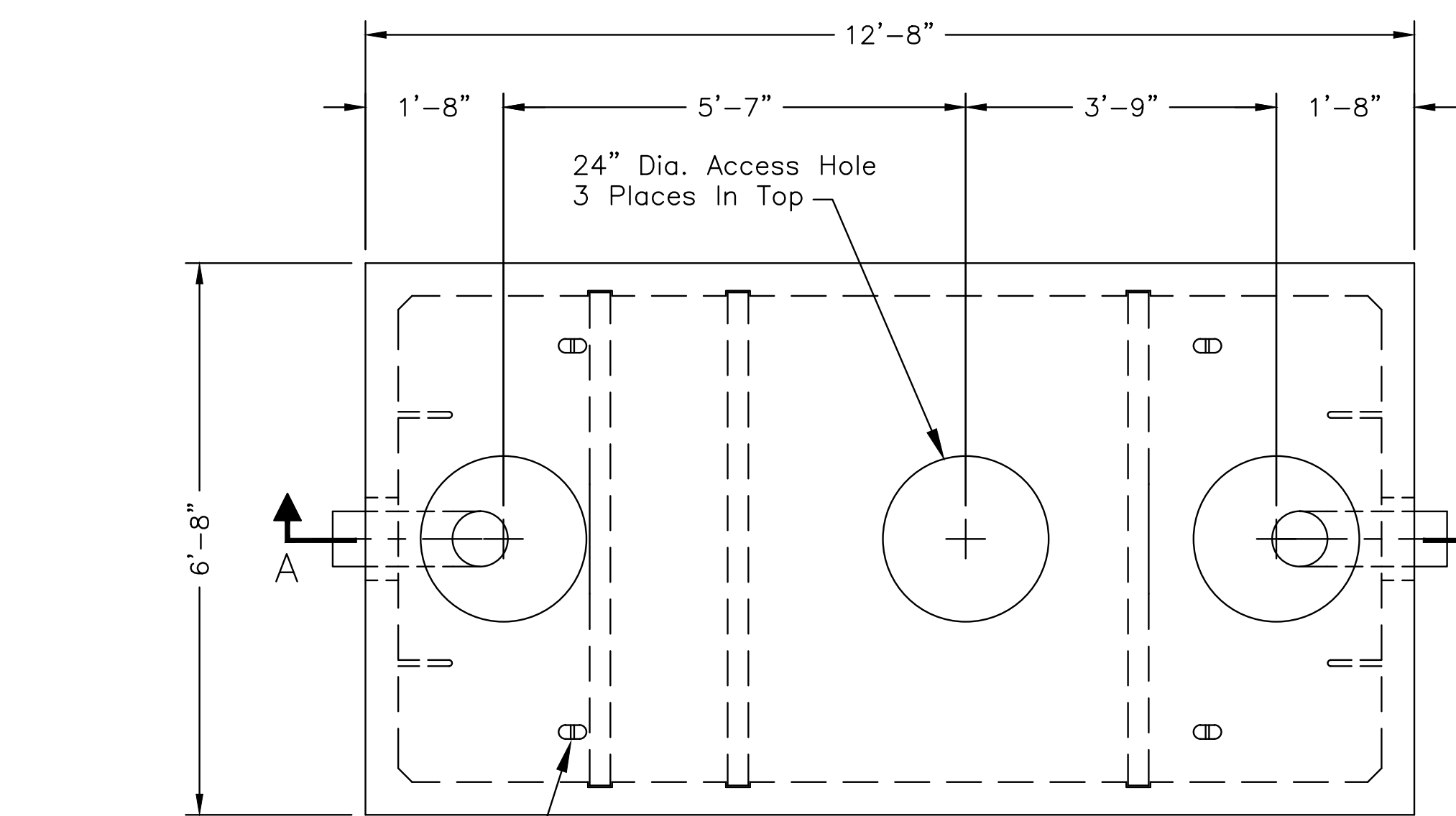
4 UTILITY TRENCH SECTION
CS103 SCALE: N.T.S.



NOTES:

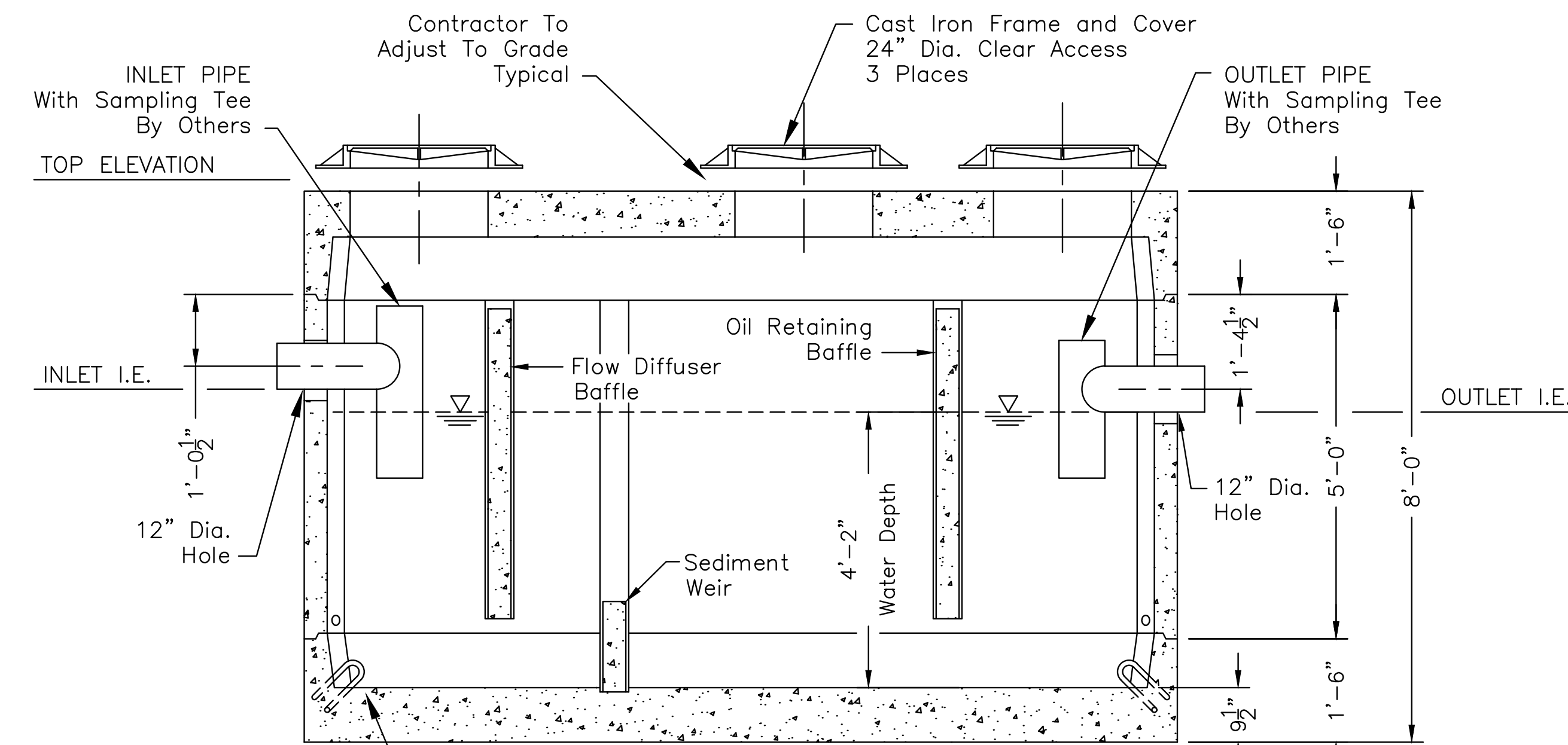
1. SEE STRUCTURAL PLANS FOR REBAR PLACEMENT AND CONCRETE SLAB SECTION.

6 CEMENT CONCRETE CURB
CS104 SCALE: N.T.S.



PLAN VIEW

Castings Not Shown



SECTION AA

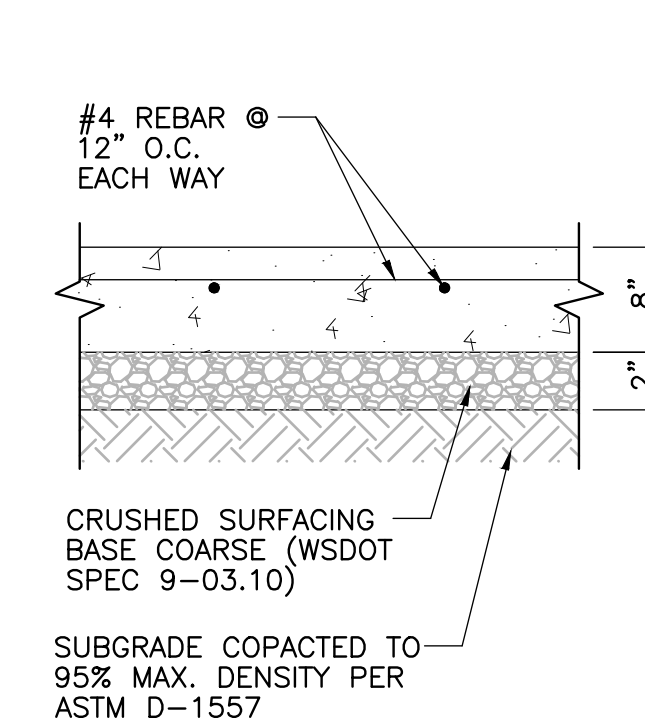
STRUCTURAL NOTES:

1. Concrete: 28 Day Compressive Strength $f'_c = 7000$ psi
2. Rebar: ASTM A-615 Grade 60
3. Mesh: ASTM A-185 Grade 65
4. Design: ACI-318-05 Building Code
ASTM C-890 "Minimum Structural Design Loading For Underground Precast Concrete Water and Wastewater Structures"
5. Loads: HS-20 Truck Wheel w/ 30% Impact Per AASHTO

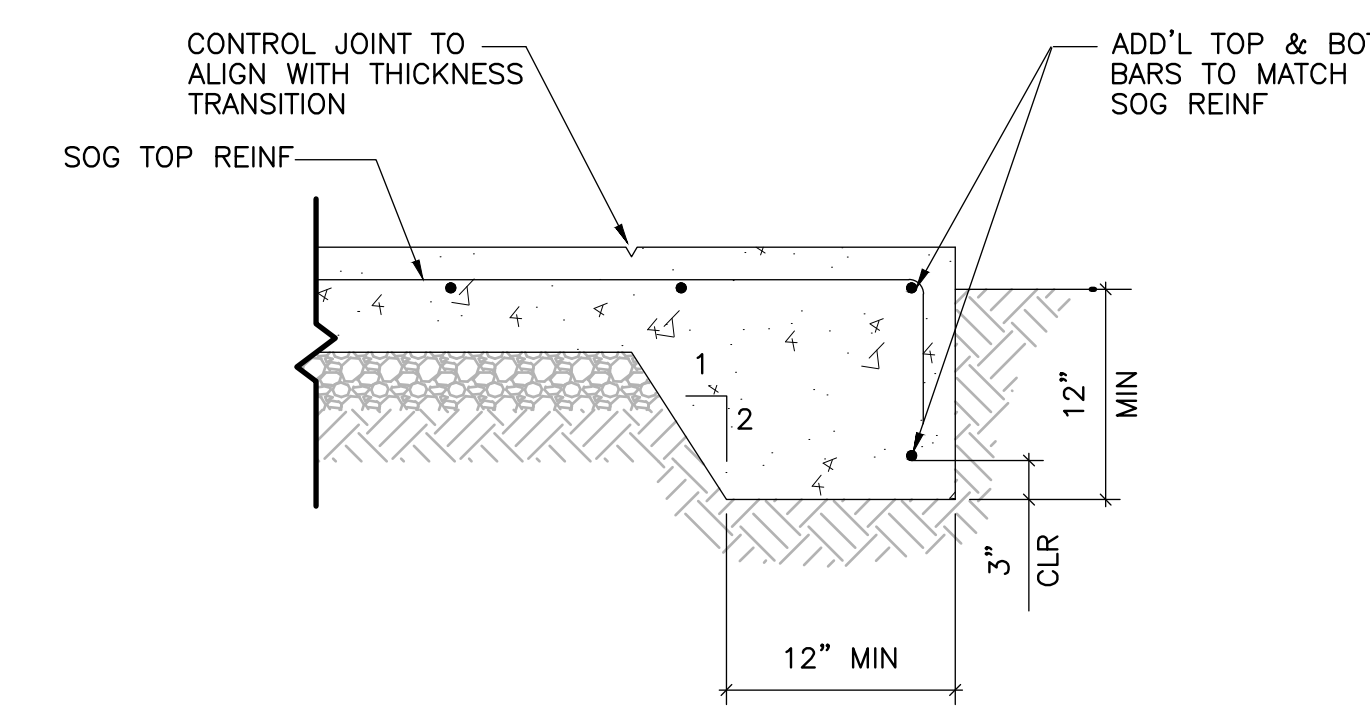
GENERAL NOTES:

1. All Baffles and Weirs To Be Precast Concrete
2. Contractor to:
Supply and Install All Piping & Sampling Tees
Grout In All Pipes
Fill With Clean Water Prior To "Start-Up" Of System
Verify All Blockout Sizes and Locations

5 2,200 GAL OIL/WATER SEPARATOR
CS103 SCALE: N.T.S.



7 CEMENT CONCRETE SLAB SECTION
CS103 SCALE: N.T.S.



8 THICKENED SLAB EDGE
CS103 SCALE: N.T.S.

AMENDMENT DRAWING

SUPERSEDES CS106

CONSULTANTS:



33301 9th Avenue South, Suite 300
Federal Way, Washington 98003-2600
(206) 431-2300 Fax: (206) 431-2250

ARCHITECT/ENGINEERS:



600 Stewart St., Ste 1400
Seattle, Washington 98101
Tel 206.267.1700
Fax 206.267.1701
SAZAN #

Drawing Title

DETAIL SHEET

Approved Project Director

VAPAHCS PLANNING AND ENGINEERING

Project Title

VA PUGET SOUND HEALTH CARE SYSTEM
UPGRADE SEATTLE ELECTRICAL
DISTRIBUTION FROM 5kV TO 15kV

Location

1660 South Columbian Way, Seattle, WA 98108

Date

02-25-2016

Checked

STORY

Drawn

BUDSBERG

Project Number

663-15-102

Building Number

100

Drawing Number

CS106R

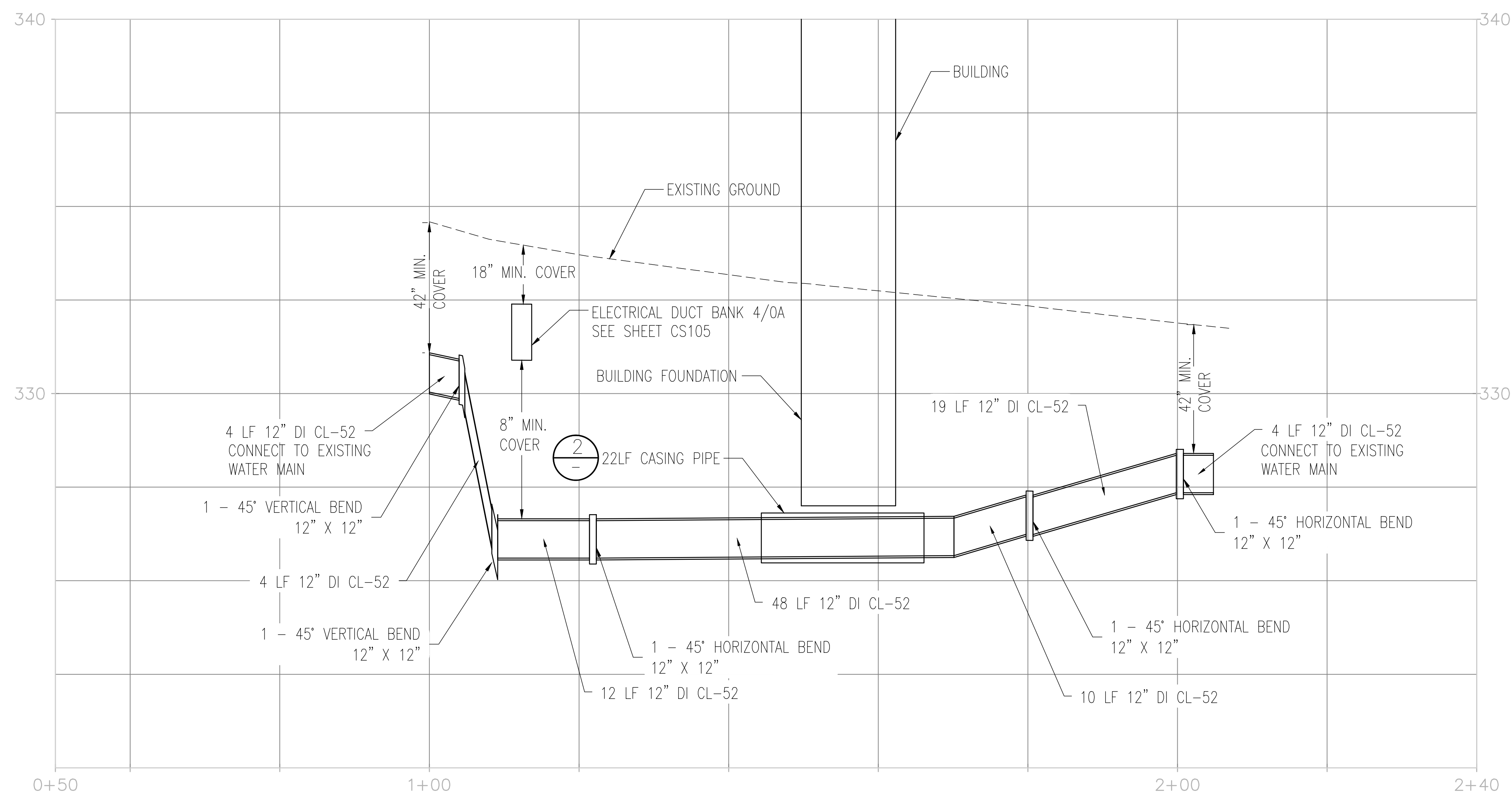
Dwg. 6 of 10

Office of
Construction
and Facilities
Management

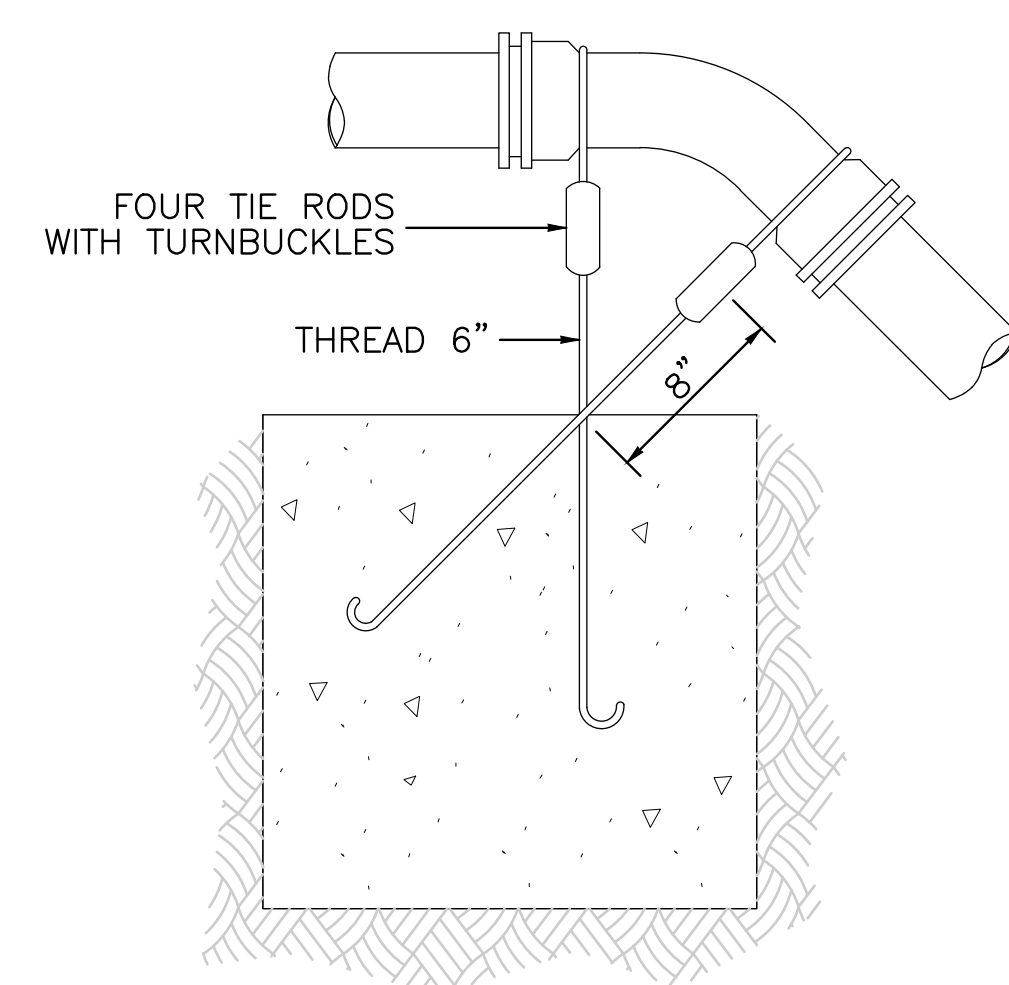
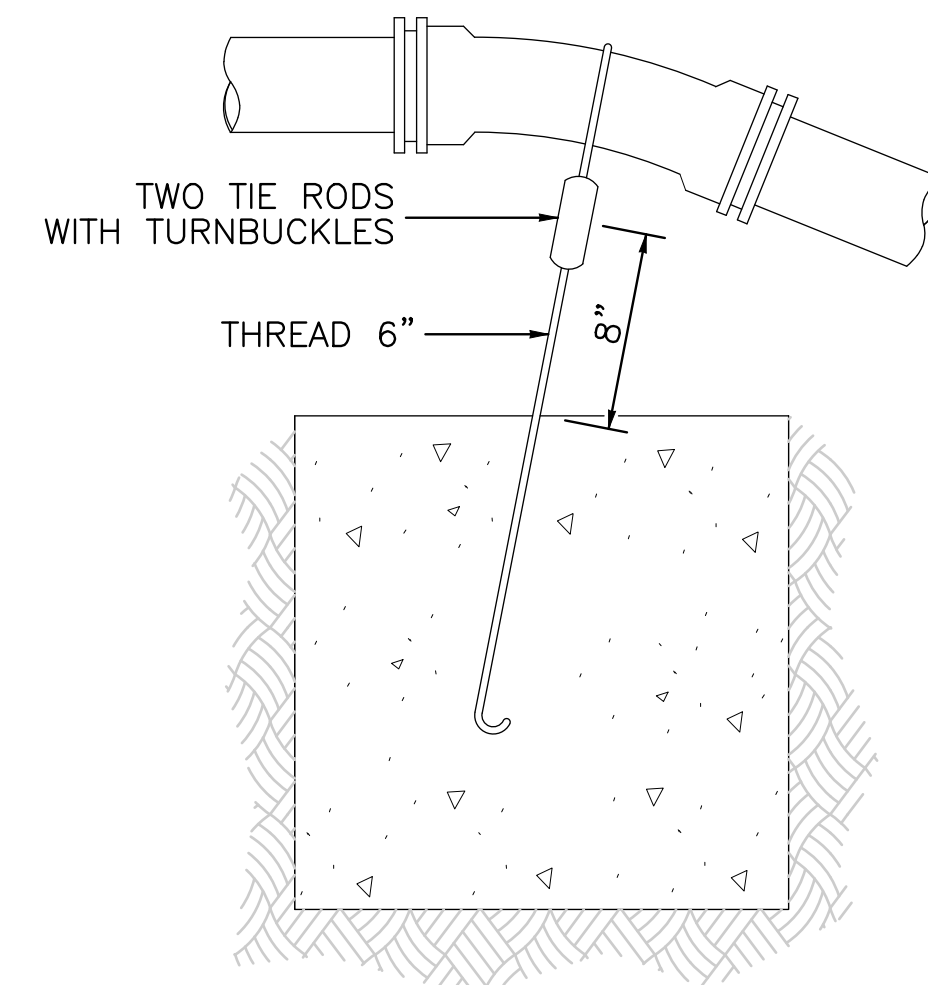


three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

02-FederalWay\2016\16.0009\00\CA00\Draws\CS107.dwg 3-28-16 11:44:14 AM mactubberg



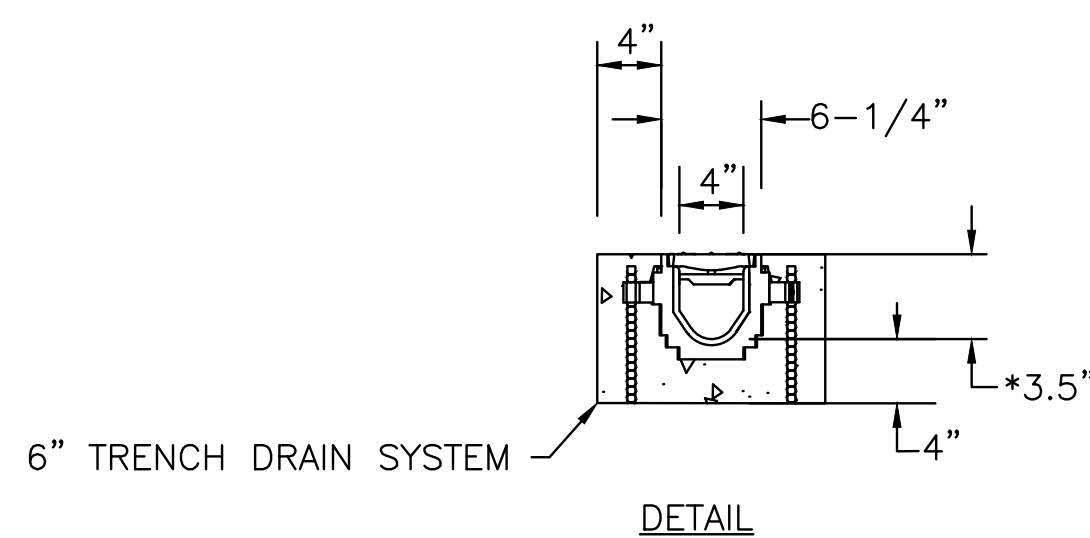
SCL EAST CAMPUS SERVICE YARD WATER LINE PROFILE
SCALE: 1"=10'(HORIZ), 1"=2'(VERT)



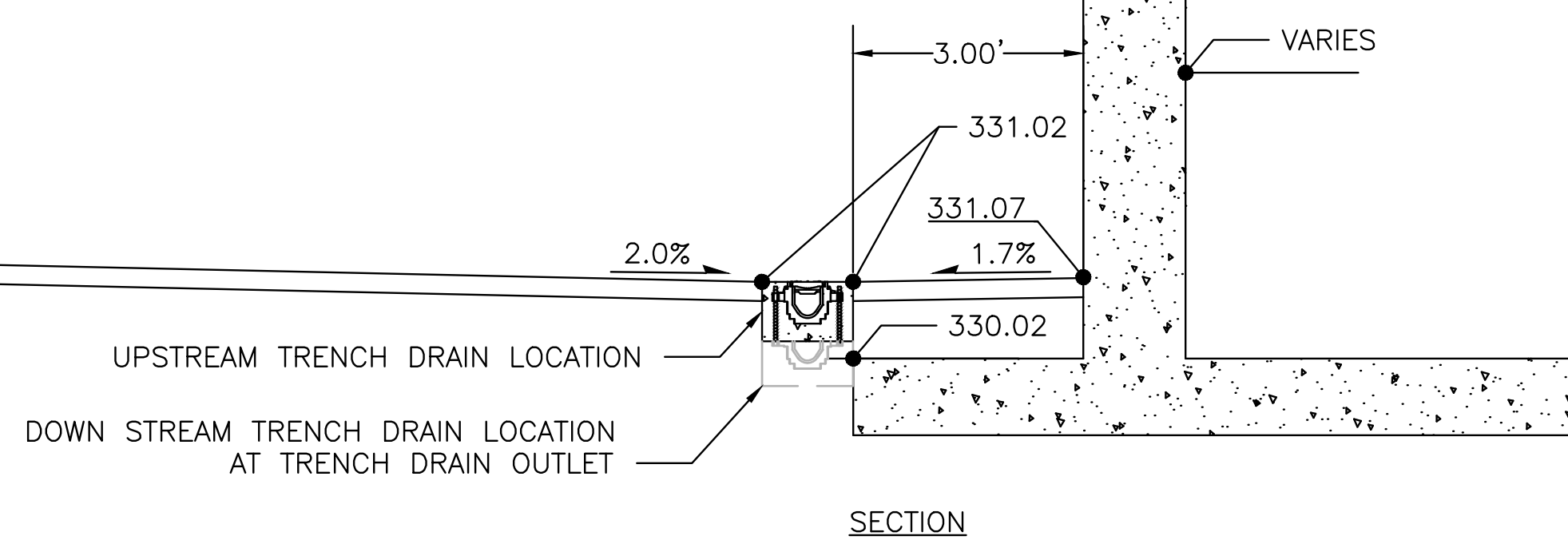
Steel tie rods to be heavily coated with asphalt after

DIMENSION TABLE						
PIPE DIAM.	TEST PRESSURE (PSI)	BEND ANGLE	CONCRETE VOLUME (FT ³)	CUBE SIZE (FT)	TIE ROD DIAM.	TIE ROD EMBENMENT
4"	250	11.25°	6	1.8	5/8"	17"
		22.5°	12	2.3		
		45°	22	2.8		
6"	250	11.25°	14	2.4	5/8"	17"
		22.5°	27	3.0		
		45°	50	3.7		
8"	250	11.25°	25	2.9	5/8"	17"
		22.5°	48	3.6		
		45°	89	4.5		
10"	250	11.25°	38	3.4	5/8"	17"
		22.5°	75	4.2		
		45°	139	5.2		
12"	250	11.25°	55	3.8	5/8"	17"
		22.5°	108	4.8		
		45°	200	5.8		
14"	250	11.25°	75	4.2	5/8"	17"
		22.5°	147	5.3	3/4"	20"
		45°	272	6.5	1"	27"
16"	250	11.25°	98	4.6	5/8"	17"
		22.5°	192	5.8	7/8"	24"
		45°	355	7.1	1 1/8"	30"

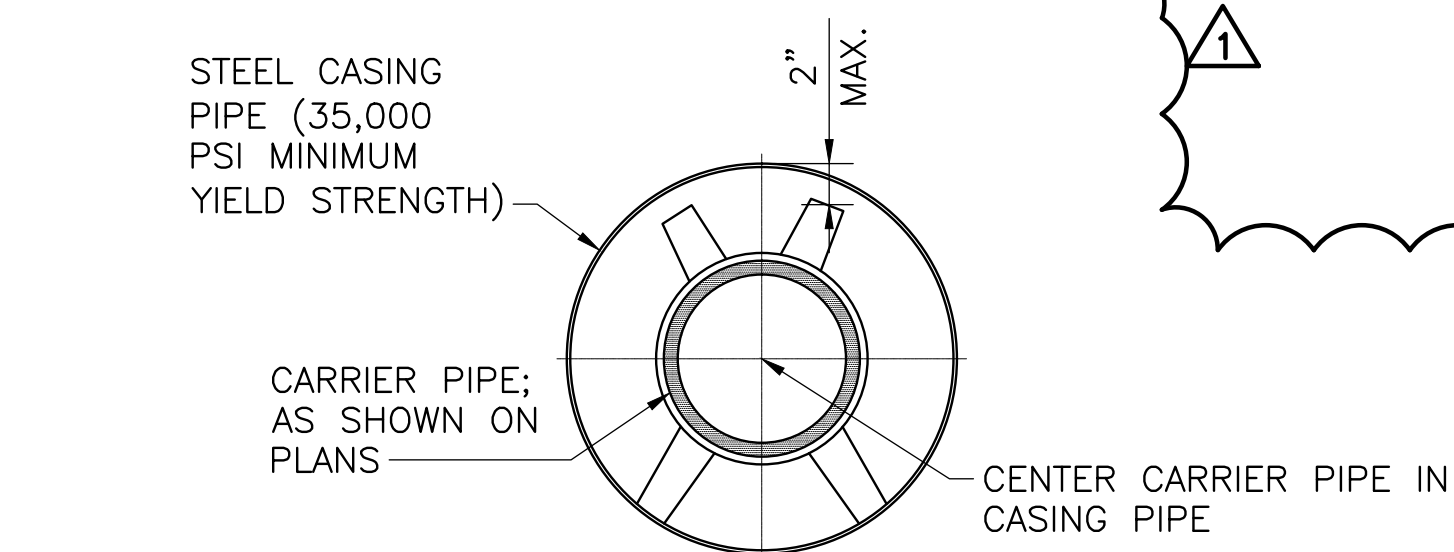
1 CONCRETE THRUST BLOCK DETAIL
SCALE: N.T.S.



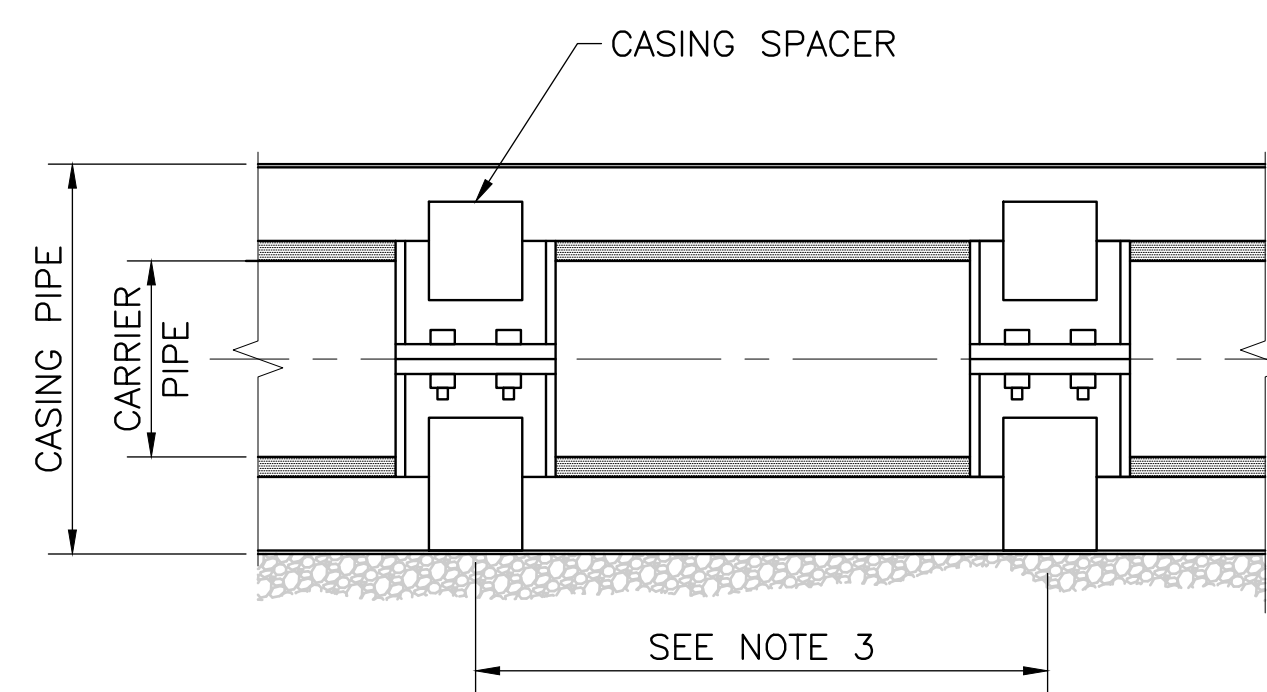
NOTE:
PROVIDE 6" TRENCH DRAIN SYSTEM WITH NON-METALIC GRATE OR EQUIVALENT.



A SECTION A-A
SCALE: N.T.S.



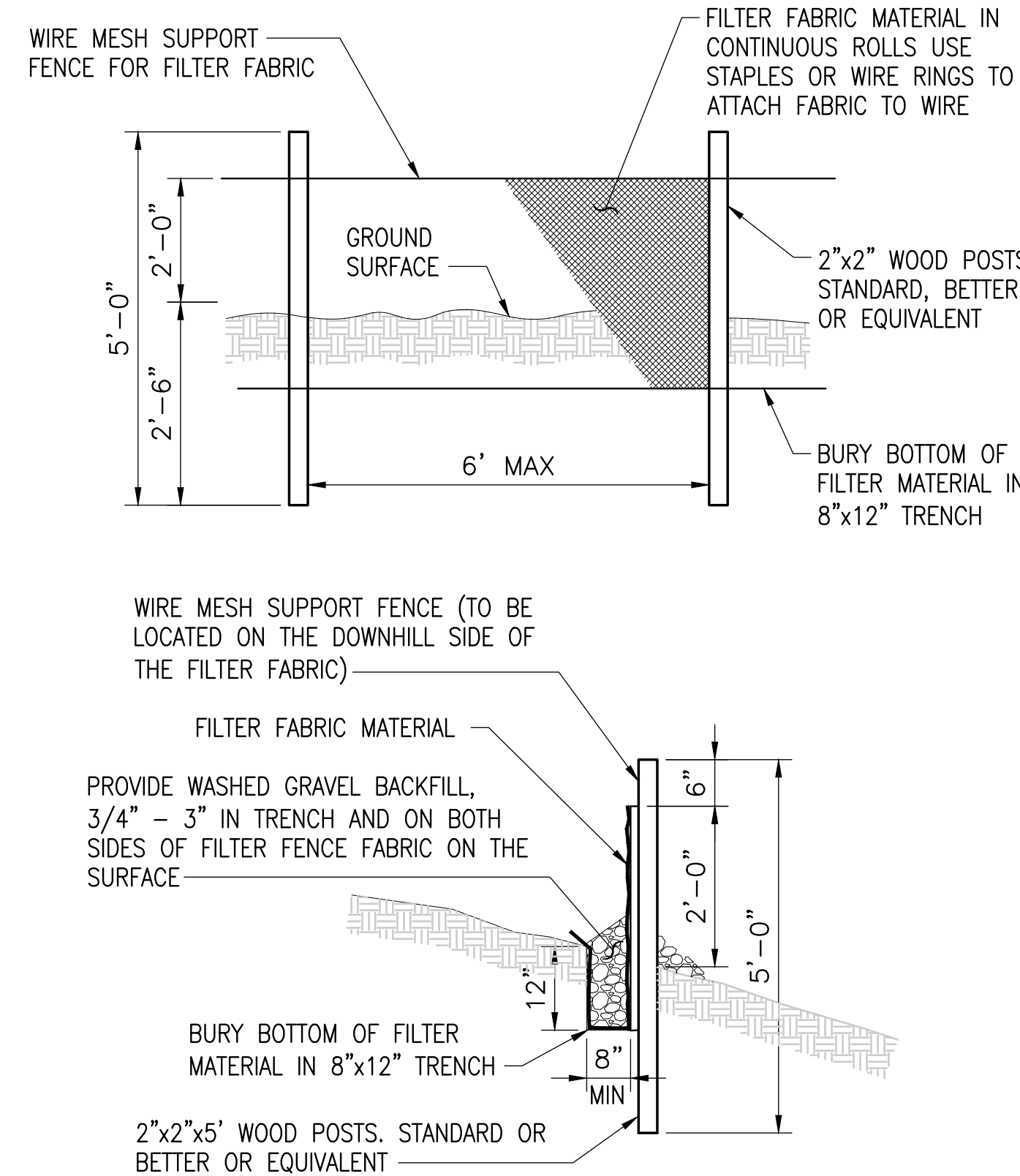
CROSS SECTION



ELEVATION

- NOTE:
- SUCCESSIVE LENGTHS OF CASING PIPE SHALL BE JOINED WITH A CONTINUOUS WELD.
 - SEAL BOTH ENDS OF STEEL CASING WITH GROUT FOR A DISTANCE OF 2X THE CASING DIAMETER FROM THE END OF THE PIPE.
 - PROVIDE 8 INCH SPACERS SPACED A MAXIMUM OF 10 FEET APART WITH A SPACER WITHIN 2 FEET OF EACH END OF THE CASING PIPE.

2 CASING PIPE
SCALE: N.T.S.



NOTES:

- FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT THE SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY FASTENED AT BOTH ENDS TO POST.
- SILT FENCE SHOWN ON THE EROSION CONTROL SHEETS ARE FOR REFERENCE ONLY, EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD DURING CONSTRUCTION.
- POST SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POST AND UPSLOPE FROM THE BARRIER. THIS TRENCH SHALL BE BACKFILLED WITH WASHED GRAVEL.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POST USING A HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG. TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED TO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POST WITH ALL OTHER PROVISIONS OF ABOVE NOTES APPLYING.
- FILTER FABRIC FENCES SHALL NOT BE REMOVED BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SILT FENCES WILL BE INSTALLED PARALLEL TO ANY SLOPE CONTOURS.
- CONTRIBUTING LENGTH TO FENCE WILL NOT BE GREATER THAN 100 FEET.
- DO NOT INSTALL BELOW AN OUTLET PIPE OR WEIR.
- INSTALL DOWNSLOPE OF EXPOSED AREAS.
- DO NOT DRIVE OVER OR FILL OVER SILT FENCES.

3 FILTER FABRIC FENCE
SCALE: N.T.S.

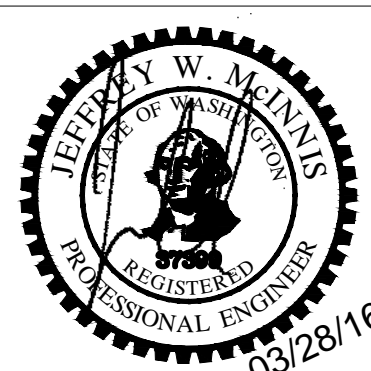
AMENDMENT DRAWING

SUPERSEDES CS107

CONSULTANTS:



33301 9th Avenue South, Suite 300
Federal Way, Washington 98003-2600
(206) 431-2300 Fax: (206) 431-2250



ARCHITECT/ENGINEERS:

SAZAN GROUP

600 Stewart St., Ste 1400
Seattle, Washington 98101

Tel 206.267.1700
Fax 206.267.1701
SAZAN #

Drawing Title

DETAIL SHEET

Approved Project Director

VAPACUS PLANNING AND ENGINEERING

Project Title

VA PUGET SOUND HEALTH CARE SYSTEM
UPGRADE SEATTLE ELECTRICAL
DISTRIBUTION FROM 5kV TO 15kV

Location
1660 South Columbian Way, Seattle, WA 98108

Date
02-25-2016

Checked
STORY

Drawn
BUDSBERG

Project Number

663-15-102

Building Number
100

Drawing Number

CS107R

Dwg. 7 of 10

Office of
Construction
and Facilities
Management




one eighth inch = one foot
0 4 8 16
one quarter inch = one foot
0 4 8
three eighths inch = one foot
0 4
one half inch = one foot
0 4
three quarters inch = one foot
0 2
one inch = one foot
0 1
one and one half inches = one foot
0 1 1/2
two inches = one foot
0 2
three inches = one foot
0 3
four inches = one foot
0 4
five inches = one foot
0 5
six inches = one foot
0 6
seven inches = one foot
0 7
eight inches = one foot
0 8
nine inches = one foot
0 9
ten inches = one foot
0 10
eleven inches = one foot
0 11
twelve inches = one foot
0 12

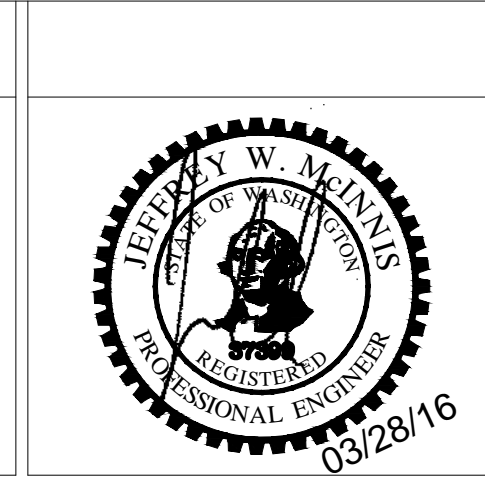
Q:\FederalWay\2016\16.0009\00\CADD\Drawg\CS108.dwg 3-28-16 11:54:51 AM mclbuddberg

REVISION 1	04-01-2016
Revisions	Date

CONSULTANTS:

 **BergerABAM**

33301 9th Avenue South, Suite 300
Federal Way, Washington 98003-2600
(206) 431-2300 Fax: (206) 431-2250



ARCHITECT/ENGINEERS:

SÄZAN GROUP

600 Stewart St., Ste 1400
Seattle, Washington 98101

Tel 206.267.1700
Fax 206.267.1701
SAZAN #

Drawing Title

DETAIL SHEET

Approved Project Director

VAPAHCS PLANNING AND ENGINEERING

Project Title

**VA PUGET SOUND HEALTH CARE SYSTEM
UPGRADE SEATTLE ELECTRICAL
DISTRIBUTION FROM 5kV TO 15kV**

Location

1660 South Columbian Way, Seattle, WA 98108

Date

04-01-2016

Checked

STORY

Drawn

BUDSBERG

Project Number

663-15-102

Building Number

100

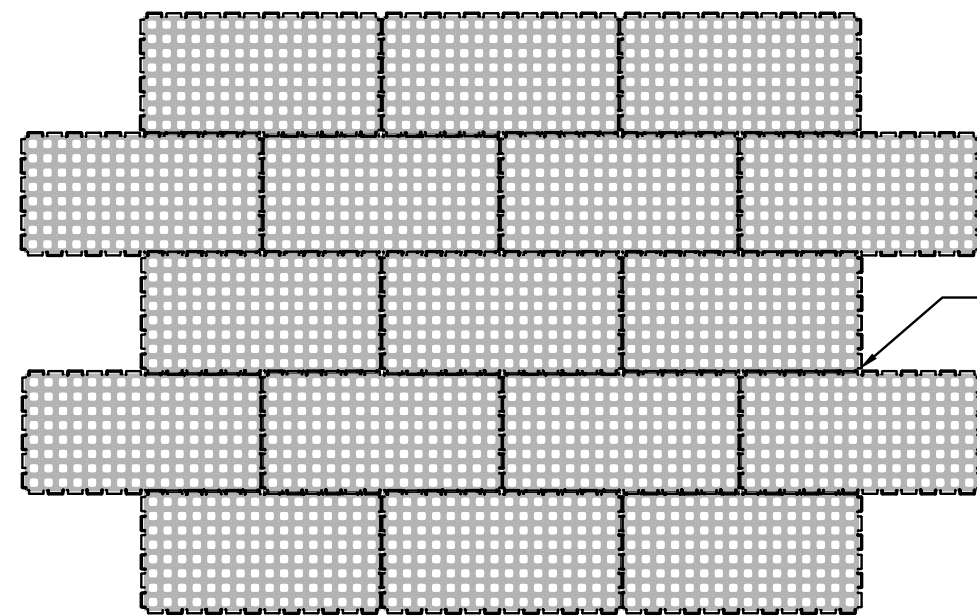
Drawing Number

CS108R

Dwg. 8 of 10

Office of
Construction
and Facilities
Management

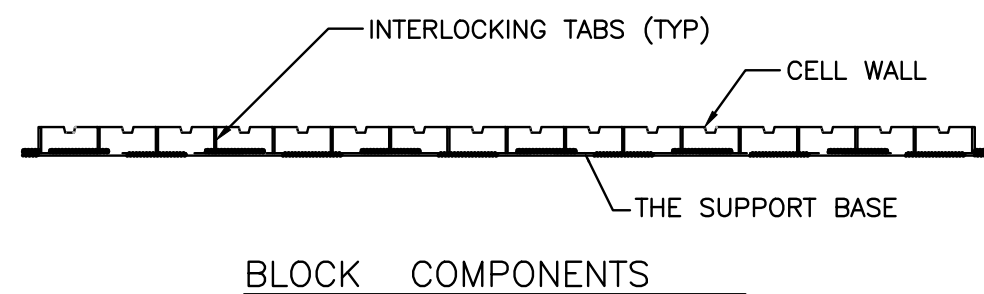
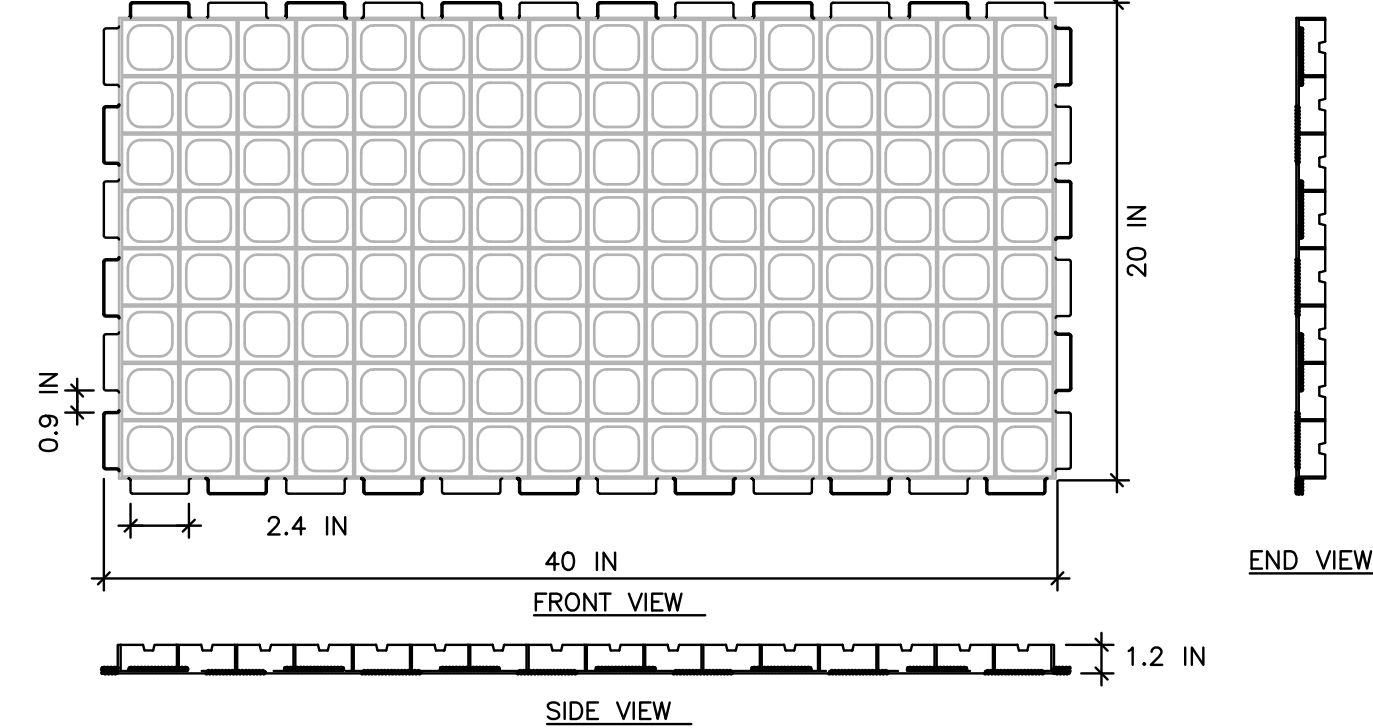
 Department of
Veterans Affairs



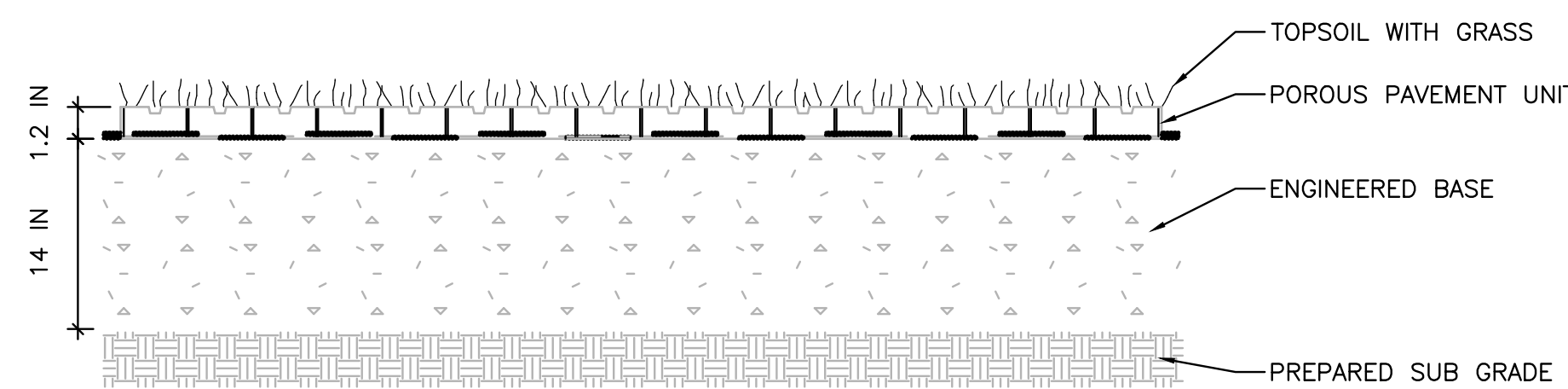
TYPICAL LAYOUT — BRICKLAYER PATTERN

CUT UNITS IN HALF
ALONG OUTER EDGE OF SYSTEM
TO FORM STRAIGHT EDGE

MATERIAL SPECIFICATION	
MATERIAL	UP TO 97% RECYCLED POLYETHYLENE
COLOR	GRAY
CHEMICAL RESISTANCE	SUPERIOR
CARBON BLACK FOR UV STABILIZATION, %	1.5 TO 2.0%
UNIT MIN CRUSH STRENGTH — EMPTY @ 70F	420 PSI
UNIT MIN CRUSH STRENGTH — SAND FILLED @ 70F	5,980 PSI
FLEXURAL MODULUS @ 73F	35,000 PSI
NOMINAL DIMENSIONS — WIDTH X LENGTH	20" X 40" IN
NOMINAL UNIT DEPTH	1.2" IN
NOMINAL AREA	5.3 SQFT
CELLS PER UNIT	128
CELL SIZE	2.25" X 2.25" IN
TOP OPEN AREA PER UNIT	88%
BOTTOM OPEN AREA PER UNIT	56%
INTERLOCKING OFFSET SHEAR TRANSFER PINS	12 TABS PER 40" IN
NOMINAL WEIGHT PER UNIT	4.7 LBS
RUNOFF COEFFICIENT @ 2.5" IN/HR RAIN	0.15
UNITS PER PALLET	92



BLOCK COMPONENTS



DESIGN 1

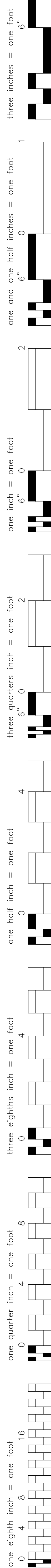
NOTES:

- ENGINEERED BASE SHALL BE A HOMOGENOUS MIXTURE CONSISTING OF CRUSHED ROCK HAVING AN AASHTO # 5 OR SIMILAR DESIGNATION BLENDED WITH PULVERIZED TOPSOIL. THE AGGREGATE PORTION SHALL HAVE A PARTICLE RANGE FROM 0.375 TO 1.0 IN WITH A D50 OF 0.5 IN. THE PERCENTAGE VOID-SPACE OF THE AGGREGATE PORTION WHEN COMPACTED SHALL BE AT LEAST 30%. THE PULVERIZED TOPSOIL PORTION SHALL EQUAL 25% +/- OF THE TOTAL VOLUME. ONCE PLACED, THE MIXTURE SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- REFER TO THE MANUFACTURE'S DESIGN AND CONSTRUCTION OVERVIEW FOR A COMPLETE DESCRIPTION OF THE DESIGN AND CONSTRUCTION METHODS.

A POROUS PAVEMENT SYSTEM DETAIL
CS102 SCALE: N.T.S.
CS103

AMENDMENT DRAWING







NEW DRAWING



NEW DRAWING

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

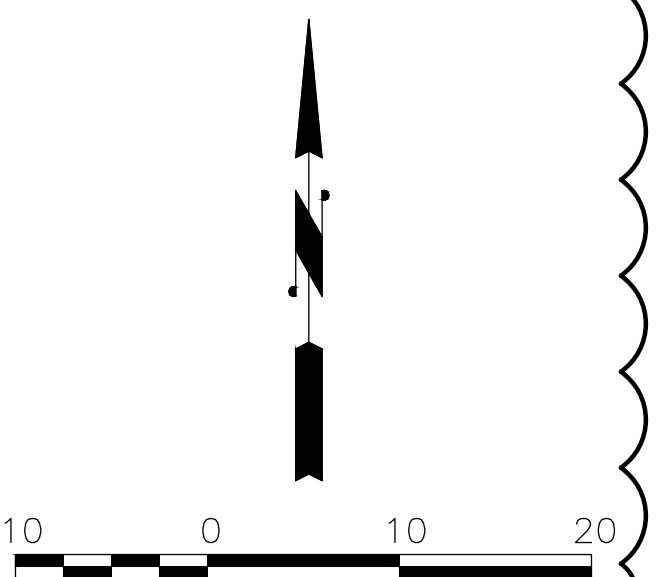
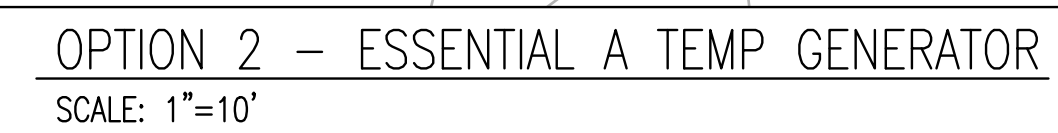


-  WORKING LIMITS
 TEMPORARY POWER EQUIPMENT PAD
 FILTER FABRIC FENCE 
 CATCH BASIN INLET PROTECTION 

1. PROTECT AND RETAIN ALL EXISTING UTILITIES/FACILITIES TO REMAIN UNLESS OTHERWISE SPECIFIED ON PLANS.
2. THE CONTRACTOR SHALL REPLACE IN KIND ALL SURFACE FEATURES REMOVED TO CONSTRUCT PROPOSED IMPROVEMENTS.
3. NORTHINGS AND EASTINGS PROVIDED ARE TO THE CENTER OF STRUCTURE/DUCT BANK.
4. CONTRACTOR SHALL OBTAIN CONSTRUCTION EASEMENTS AS REQUIRED TO CONSTRUCT PROPOSED IMPROVEMENTS.
5. CALL THE UNDERGROUND LOCATE LINE 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.
6. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN STREET USE AND OTHER RELATED OR REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION ACTIVITY IN THE MUNICIPALITY'S RIGHT-OF-WAY. IT SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS FOR TRAFFIC CONTROL & SAFETY WHEN WORKING IN THE ROAD RIGHT-OF-WAY.
7. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN THE EVENT OR DISCOVERY OF POOR SOILS AND/OR STANDING GROUNDWATER.
8. PROVIDE CATCH BASIN INLET PROTECTION TO ALL CATCH BASINS DOWNSTREAM OF DISTURBED SOILS. SEE THE OPTION 2 LEGEND, THIS SHEET.
10. SEE SHEET CS102 FOR TEMPORARY EROSION/SEDIMENT CONTROL NOTES.

-  WORKING LIMITS
 NEW DUCT BANK
 FILTER FABRIC FENCE
 CATCH BASIN INLET PROTECTION

1. PROTECT AND RETAIN ALL EXISTING UTILITIES/FACILITIES TO REMAIN UNLESS OTHERWISE SPECIFIED ON PLANS.
2. THE CONTRACTOR SHALL REPLACE IN KIND ALL SURFACE FEATURES REMOVED TO CONSTRUCT PROPOSED IMPROVEMENTS.
3. NORTHINGS AND EASTINGS PROVIDED ARE TO THE CENTER OF STRUCTURE/DUCT BANK.
4. CALL THE UNDERGROUND LOCATE LINE 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.
5. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN THE EVENT OR DISCOVERY OF POOR SOILS AND/OR STANDING GROUNDWATER.
6. PROVIDE MINIMUM 5.0' RADIUS ON ALL DUCT BANKS.
7. PROVIDE 12" MINIMUM HORIZONTAL SEPARATION BETWEEN PROPOSED DUCT BANK AND ALL OTHER EXISTING UTILITIES. IF THE 12" MINIMUM SEPARATION CAN NOT BE MET THE CONTRACTOR SHALL PROVIDE SPECIAL PROVISIONS AS DIRECTED BY THE CONSTRUCTION MANAGER/ENGINEER OF RECORD.
8. EXISTING CONDITIONS PROVIDED BY SUPPLEMENT DATA. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES AND SURFACE FEATURES PRIOR TO THE BEGINNING OF CONSTRUCTION.
9. PROVIDE CATCH BASIN INLET PROTECTION TO ALL CATCH BASINS DOWNSTREAM OF DISTURBED SOILS. SEE THE OPTION 3 LEGEND, THIS SHEET.
10. PROVIDE FILTER FABRIC FENCE DOWNSTREAM OF DISTURBED SOILS. SEE THE OPTION 3 LEGEND, THIS SHEET.
11. SEE SHEET CS102 FOR TEMPORARY EROSION/SEDIMENT CONTROL NOTES.



NEW DRAWING

 Department of
Veterans Affairs